

PSB1/10/24/0.42



0.42A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 80%
- Compact design with a width of only 18mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W18 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	868000 hr
Pollution Degree	2
Relative Humidity Range	20-95 % RH
Switching Frequency (typ.)	90 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	24 VDC
Output Current	0.42 A
Output Wattage	10 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	78%
Efficiency (typ.)	80%
Standard Packing Qty	1
Cat. No.	PSB1/10/24/0.42

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 18 x 56.5 mm
Packing	0.11kg ; 120 pcs / 14.5kg / 2.28 CUFT
Weight	65 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T1A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	30 - 33 VDC
Rated over load protection	110-165 %

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	15 A
Max. Inrush Current (Vi: 230 VAC)	30 A
Power Dissipation (Vi: 230 VAC, Io norm)	2.3 W
Rated Input Current -Max. (Vi : 115 VAC)	300 mA
Rated Input Current -Typ. (Vi : 115 VAC)	200 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	19.2-21.6 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	19.2-21.6 VDC
Efficiency	80%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	10 msec
Hold Up Time (Vi: 230VAC)	30 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	0.42 A
Output Voltage	24 VDC
Output Voltage Accuracy (Adjusted before shipment)	+/- 1 %

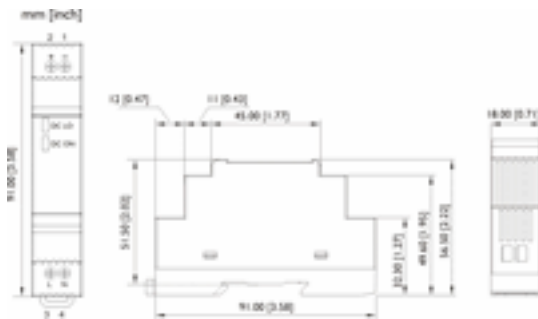
OUTPUT SPECIFICATIONS....

Power Back Immunity	35 VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 µF	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 µF	1500 msec

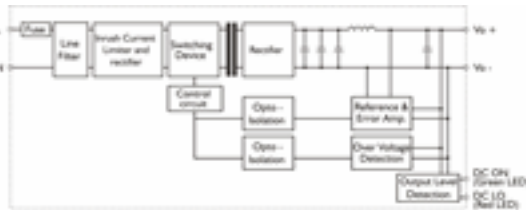
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
1	OUT	-	Negative output terminal
2	OUT	+	Positive output terminal
3	OUT	L	Input terminals (phase conductor, no polarity at DC input)
4	OUT	N	Input terminals (neutral conductor, no polarity at DC input)

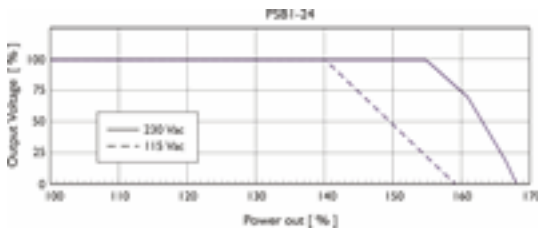
DIMENTISONAL DIAGRAM



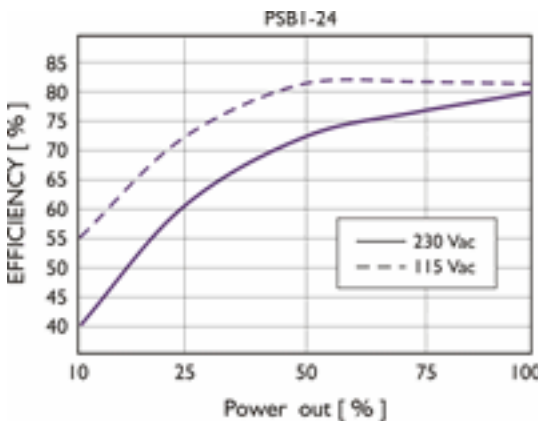
CIRCUIT SCHEMATIC



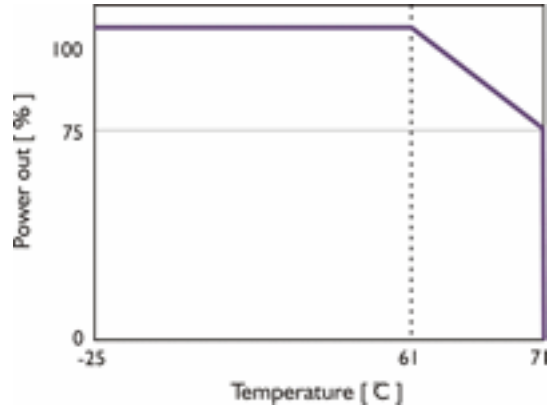
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended

CONNECTION DETAILS

Spring terminal: 2 AWG24-14 (0.2-2mm²) flexible / solid cable,- Connector can withstand torqueat maximum 5 pound-inches.4-5 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 75 C

PSB2/24/24/1



1A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 85%
- Compact design with a width of only 35mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	3000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W35 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	832000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	65 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	24 VDC
Output Current	1 A
Output Wattage	24 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	83%
Efficiency (typ.)	85%
Standard Packing Qty	1
Cat. No.	PSB2/24/24/1

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 35 x 56.5 mm
Packing	0.17kg ; 80 pcs / 15 kg / 1.82 CUFT
Weight	130 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2,EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Hiccup mode
Over voltage protection	30 - 33 VDC
Rated over load protection	120-160%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	20 A
Max. Inrush Current (Vi: 230 VAC)	40 A
Power Dissipation (Vi: 230 VAC, Io norm)	4 W
Rated Input Current -Max. (Vi : 115 VAC)	600 mA
Rated Input Current -Typ. (Vi : 115 VAC)	450 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	19.2-21.6 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	19.2-21.6 VDC
Efficiency	85%
Hold Up Time (Vi: 115VAC)	20 msec
Hold Up Time (Vi: 230VAC)	80 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	1 A
Output Voltage	24 VDC
Output Voltage Accuracy (Adjusted before shipment)	+/- 1 %
Output Voltage Trim Range	24 - 28 VDC

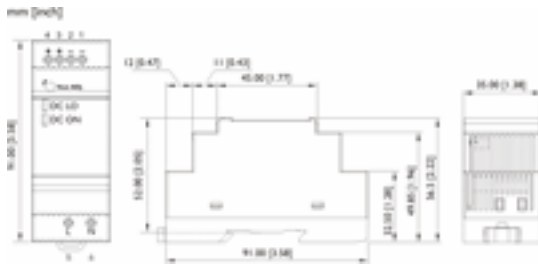
OUTPUT SPECIFICATIONS....

Power Back Immunity	35 VDC
Rated Continuous Loading	1A @ 24VDC / 0.85A @ 28VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

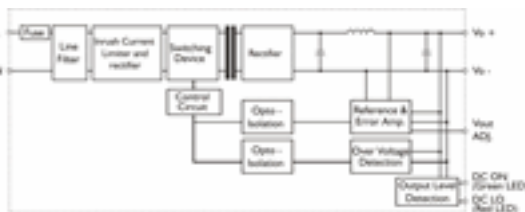
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
1	OUT	-	Negative output terminal
2	OUT	-	Negative output terminal
3	OUT	+	Positive output terminal
4	OUT	+	Positive output terminal
5	IN	L	Input terminals (phase conductor, no polarity at DC input)
6	IN	N	Input terminals (neutral conductor, no polarity at DC input)

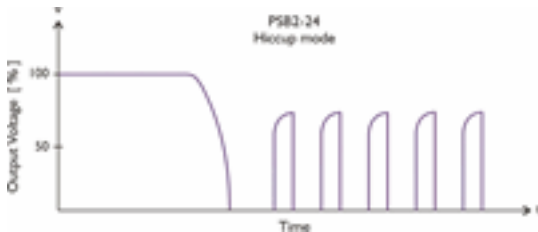
DIMENTISONAL DIAGRAM



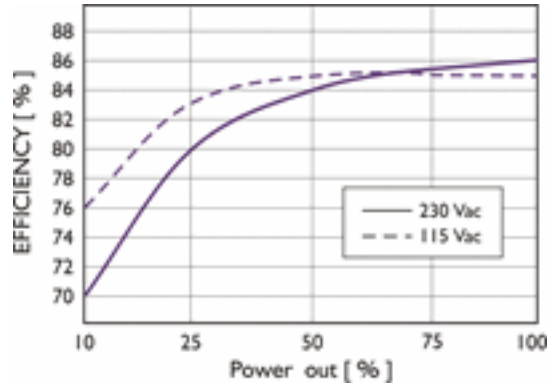
CIRCUIT SCHEMATIC



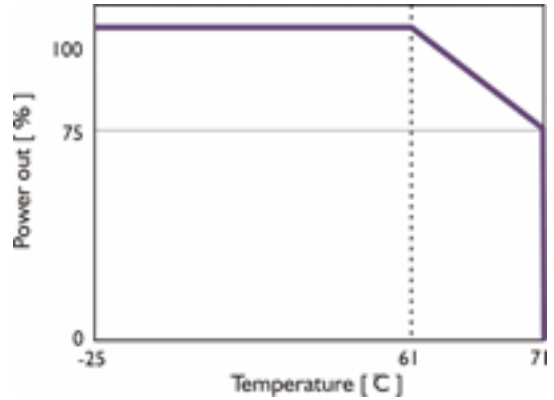
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended

CONNECTION DETAILS

Spring terminal: 2 AWG24-14 (0.2-2mm²) flexible / solid cable,- Connector can withstand torque at maximum 5 pound-inches.4-5 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 75 C

PSB3/36/24/1.5



1.5A Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 84%
- Compact design with a width of only 53mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	3000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W53 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	732000 hr
Pollution Degree	2
Relative Humidity Range	20-95 % RH
Switching Frequency (typ.)	65 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	24 VDC
Output Current	1.5 A
Output Wattage	36 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	81%
Efficiency (typ.)	84%
Standard Packing Qty	1
Cat. No.	PSB3/36/24/1.5

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 53 x 56.5 mm
Packing	0.25kg ; 64 pcs / 17kg / 2.28 CUFT
Weight	190 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	30 - 33 VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	25 A
Max. Inrush Current (Vi: 230 VAC)	50 A
Power Dissipation (Vi: 230 VAC, Io norm)	7.1 W
Rated Input Current -Max. (Vi : 115 VAC)	900 mA
Rated Input Current -Typ. (Vi : 115 VAC)	680 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	19.2-21.6 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	19.2-21.6 VDC
Efficiency	84%
Hold Up Time (Vi: 115VAC)	20 msec
Hold Up Time (Vi: 230VAC)	100 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	1.5 A
Output Voltage	24 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	24 - 28 VDC
Power Back Immunity	35 VDC

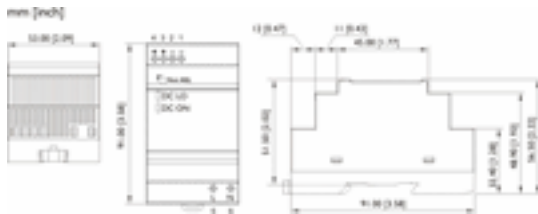
OUTPUT SPECIFICATIONS....

Rated Continuous Loading	1.5A @ 24VDC / 1.25A @ 28VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

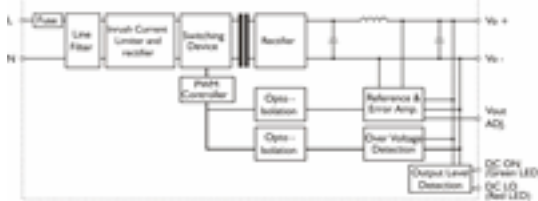
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
1	OUT	-	Negative output terminal
2	OUT	-	Negative output terminal
3	OUT	+	Positive output terminal
4	OUT	+	Positive output terminal
5	IN	L	Input terminals (phase conductor, no polarity at DC input)
6	IN	N	Input terminals (neutral conductor, no polarity at DC input)

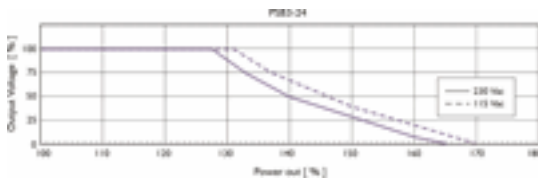
DIMENTIONAL DIAGRAM



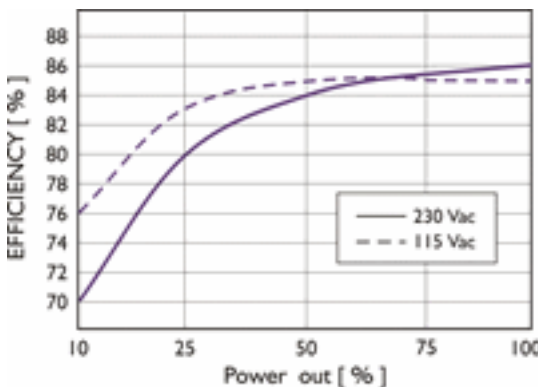
CIRCUIT SCHEMATIC



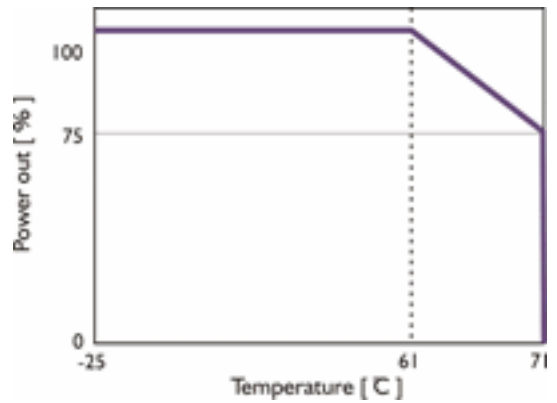
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended Connector size range

CONNECTION DETAILS

AWG24-12 (0.2-2mm²) flexible / solid cable, 7 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 70 C - Connector can withstand torque at maximum 6 pound-inches.

PSB4/60/24/2.5



2.5A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 86%
- Compact design with a width of only 71mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W71 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	608000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	55 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	24 VDC
Output Current	2.5 A
Output Wattage	60 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	84%
Efficiency (typ.)	86%
Standard Packing Qty	1
Cat. No.	PSB4/60/24/2.5

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 71 x 56.5 mm
Packing	0.31 kg ; 48 pcs / 16kg / 2.28 CUFT
Weight	250 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	30 - 33 VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	30 A
Max. Inrush Current (Vi: 230 VAC)	60 A
Power Dissipation (Vi: 230 VAC, Io norm)	9.9 W
Rated Input Current -Max. (Vi : 115 VAC)	1.5 mA
Rated Input Current -Typ. (Vi : 115 VAC)	1.1 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	19.2-21.6 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	19.2-21.6 VDC
Efficiency	86%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	12 msec
Hold Up Time (Vi: 230VAC)	60 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	2.5 A
Output Voltage	24 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	24 - 28 VDC

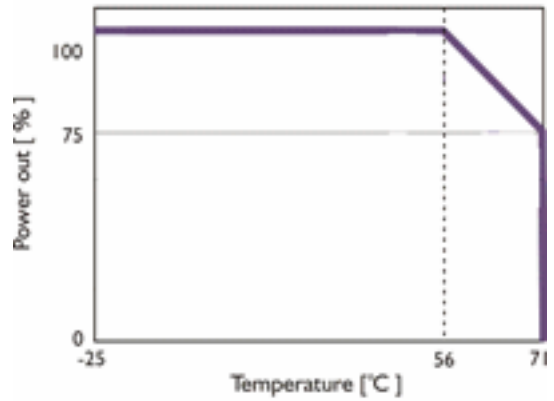
OUTPUT SPECIFICATIONS....

Power Back Immunity	35 VDC
Rated Continuous Loading	2.5A @ 24VDC / 2.1A @ 28VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
1	OUT	-	Negative output terminal
2	OUT	-	Negative output terminal
3	OUT	+	Positive output terminal
4	OUT	+	Positive output terminal
5	IN	L	Input terminals (phase conductor, no polarity at DC input)
6	IN	N	Input terminals (neutral conductor, no polarity at DC input)

DERATING CURVE



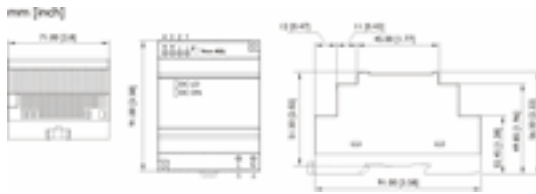
CONNECTION DETAILS

AWG24-12 (0.2-2mm²) flexible / solid cable, 7 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 70 C - Connector can withstand torque at maximum 6 pound-inches.

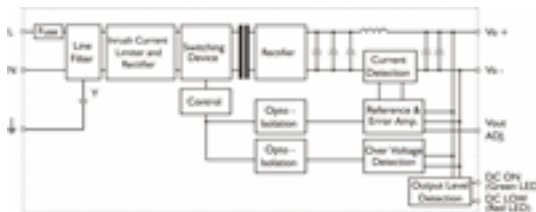
INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended Connector size range

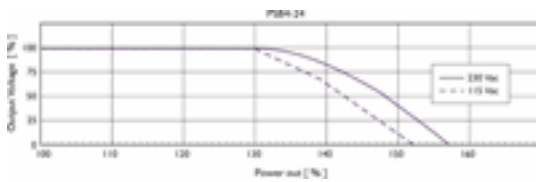
DIMENTISONAL DIAGRAM



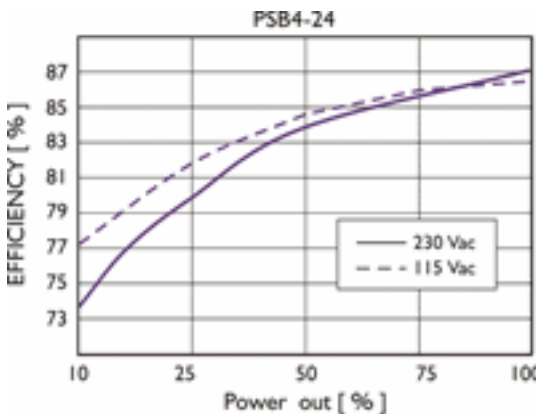
CIRCUIT SCHEMATIC



CURRENT LIMITED CURVE



EFFICIENCY CURVE



PSB5/100/24/3.8-L



4.2A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 89%
- Compact design with a width of only 90mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W90x D57 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	525000 hr
Pollution Degree	2
Relative Humidity Range	20 -95 % RH
Switching Frequency (typ.)	55 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	24 VDC
Output Current	4.2 A
Output Wattage	100.8 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	86%
Efficiency (typ.)	89%
Standard Packing Qty	1
Cat. No.	PSB5/100/24/4.2

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 90 x 57 mm
Packing	0.44 kg / 40 pcs / 19kg / 2.28 CUFT
Weight	380 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T3.15A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	30- 33 VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	30 A
Max. Inrush Current (Vi: 230 VAC)	60 A
Power Dissipation (Vi: 230 VAC, Io norm)	12.2 W
Rated Input Current -Max. (Vi : 115 VAC)	2.2 mA
Rated Input Current -Typ. (Vi : 115 VAC)	1.8 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	19.2-21.6 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	19.2-21.6 VDC
Efficiency	89%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	10 msec
Hold Up Time (Vi: 230VAC)	60 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	4.2 A
Output Voltage	24 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	24 - 28 VDC

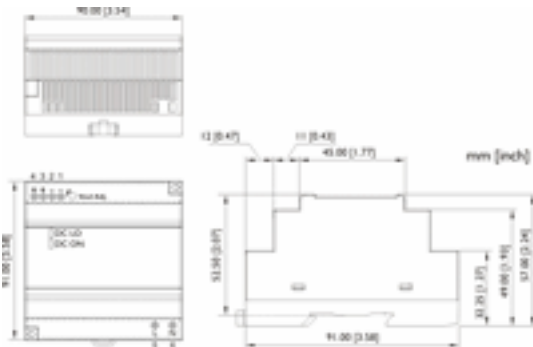
OUTPUT SPECIFICATIONS....

Power Back Immunity	35 VDC
Rated Continuous Loading	4.2A @ 24VDC / 3.6A @ 28VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 µF	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 µF	1500 msec

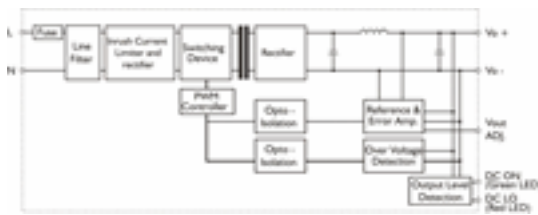
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
1	OUT	-	Negative output terminal
2	OUT	-	Negative output terminal
3	OUT	+	Positive output terminal
4	OUT	+	Positive output terminal
5	IN	L	Input terminals (phase conductor, no polarity at DC input)
6	IN	N	Input terminals (neutral conductor, no polarity at DC input)

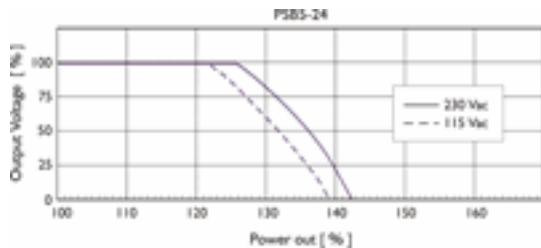
DIMENTISONAL DIAGRAM



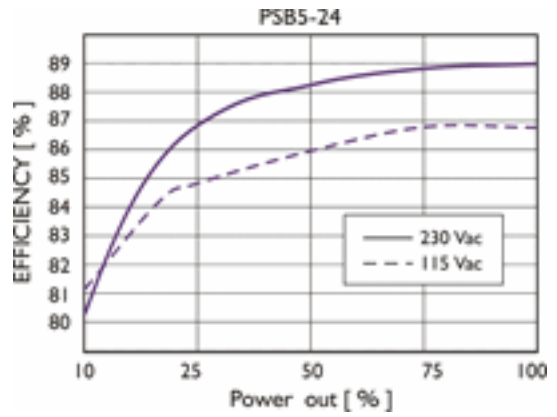
CIRCUIT SCHEMATIC



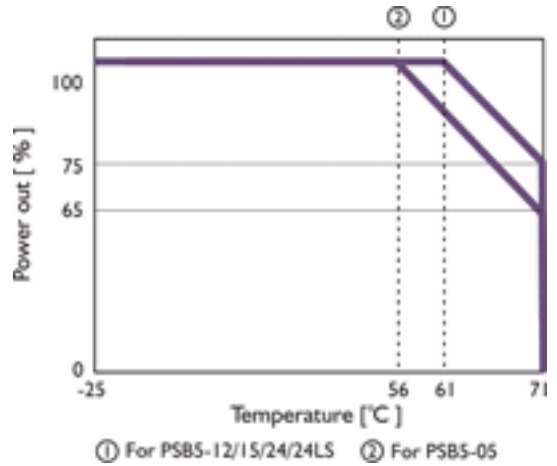
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended Connector size range

CONNECTION DETAILS

AWG24-12 (0.2-2mm²) flexible / solid cable, 7 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 70 C - Connector can withstand torque at maximum 6 pound-inches.

PSB1/10/12/0.83



0.83A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 80%
- Compact design with a width of only 18mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W18 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	884000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	90 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	12 VDC
Output Current	0.83 A
Output Wattage	10 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	76%
Efficiency (typ.)	78%
Standard Packing Qty	1
Cat. No.	PSB1/10/12/0.83

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 18 x 56.5 mm
Packing	0.11kg ; 120 pcs / 14.5kg / 2.28 CUFT
Weight	65 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T1A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	15 - 16.5 VDC
Rated over load protection	110-165 %

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	15 A
Max. Inrush Current (Vi: 230 VAC)	30 A
Power Dissipation (Vi: 230 VAC, Io norm)	2.3 W
Rated Input Current -Max. (Vi : 115 VAC)	300 mA
Rated Input Current -Typ. (Vi : 115 VAC)	200 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	9-10.8 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	9-10.8 VDC
Efficiency	80%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	10 msec
Hold Up Time (Vi: 230VAC)	30 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	0.83 A
Output Voltage	12 VDC
Output Voltage Accuracy (Adjusted before shipment)	+/- 1 %

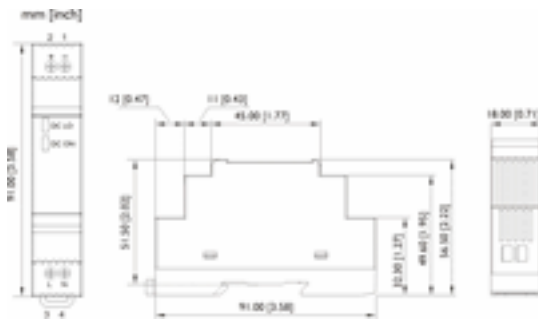
OUTPUT SPECIFICATIONS....

Power Back Immunity	18 VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 µF	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 µF	1500 msec

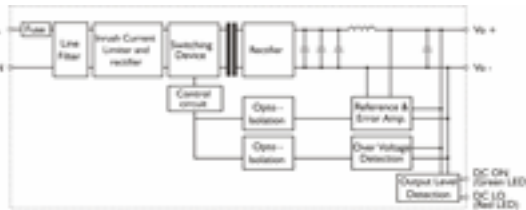
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
1	OUT	-	Negative output terminal
2	OUT	+	Positive output terminal
3	OUT	L	Input terminals (phase conductor, no polarity at DC input)
4	OUT	N	Input terminals (neutral conductor, no polarity at DC input)

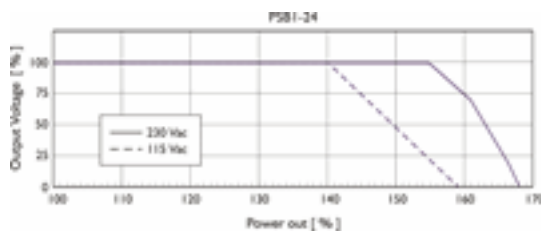
DIMENTISONAL DIAGRAM



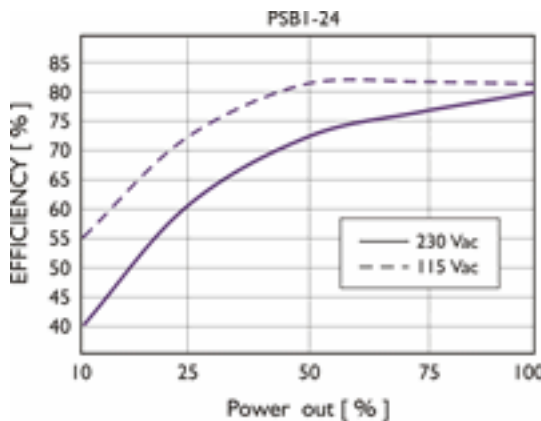
CIRCUIT SCHEMATIC



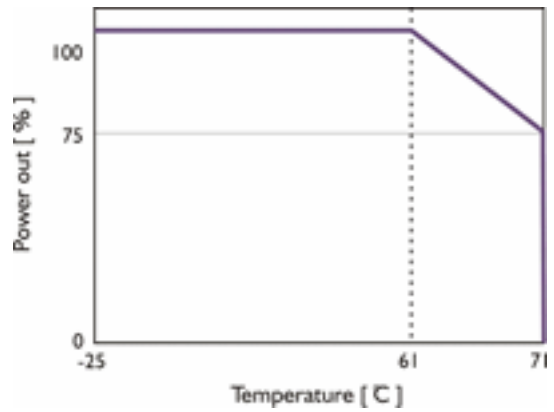
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended

CONNECTION DETAILS

Spring terminal: 2 AWG24-14 (0.2-2mm) flexible / solid cable,- Connector can withstand torqueat maximum 5 pound-inches.4-5 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 75 C

PSB2/24/12/2



2A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 85%
- Compact design with a width of only 35mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	3000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W35 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	798000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	65 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	12 VDC
Output Current	2 A
Output Wattage	24 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	82%
Efficiency (typ.)	84%
Standard Packing Qty	1
Cat. No.	PSB2/24/12/2

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 35 x 56.5 mm
Packing	0.17kg ; 80 pcs / 15 kg / 1.82 CUFT
Weight	130 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Hiccup mode
Over voltage protection	15 - 16.5 VDC
Rated over load protection	120-160%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	20 A
Max. Inrush Current (Vi: 230 VAC)	40 A
Power Dissipation (Vi: 230 VAC, Io norm)	4.3 W
Rated Input Current -Max. (Vi : 115 VAC)	600 mA
Rated Input Current -Typ. (Vi : 115 VAC)	450 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	9-10.8 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	9-10.8 VDC
Efficiency	85%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	20 msec
Hold Up Time (Vi: 230VAC)	80 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	2 A
Output Voltage	12 VDC
Output Voltage Accuracy (Adjusted before shipment)	+/- 1 %

PSB3/33/12/2.75



2.75A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 84%
- Compact design with a width of only 53mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	3000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W53 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	697000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	65 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	12 VDC
Output Current	2.75 A
Output Wattage	33 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	80%
Efficiency (typ.)	83%
Standard Packing Qty	1
Cat. No.	PSB3/33/12/2.75

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 53 x 56.5 mm
Packing	0.25kg ; 64 pcs / 17kg / 2.28 CUFT
Weight	190 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	15 - 16.5 VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	25 A
Max. Inrush Current (Vi: 230 VAC)	50 A
Power Dissipation (Vi: 230 VAC, Io norm)	7.3 W
Rated Input Current -Max. (Vi : 115 VAC)	900 mA
Rated Input Current -Typ. (Vi : 115 VAC)	680 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	9-10.8VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	9-10.8VDC
Efficiency	84%
Hold Up Time (Vi: 115VAC)	20 msec
Hold Up Time (Vi: 230VAC)	100 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	2.75 A
Output Voltage	12 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	12- 14 VDC
Power Back Immunity	18 VDC

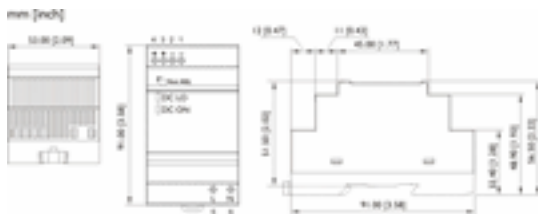
OUTPUT SPECIFICATIONS....

Rated Continuous Loading	2.75A @ 12VDC / 2.3A @ 14VDC
Rise Time	50 mV
Rise Time With 3500 μ F	150 ms
Transient Recovery Time	500 ms
Turn On Time	2 ms
Turn On Time With 3500 μ F	1000 ms
Turn On Time With 3500 μ F	1500 msec

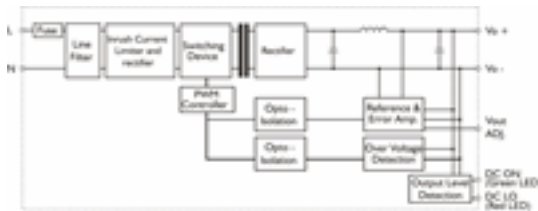
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
1	OUT	-	Negative output terminal
2	OUT	-	Negative output terminal
3	OUT	+	Positive output terminal
4	OUT	+	Positive output terminal
5	IN	L	Input terminals (phase conductor, no polarity at DC input)
6	IN	N	Input terminals (neutral conductor, no polarity at DC input)

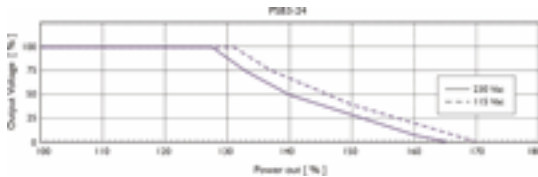
DIMENTIONAL DIAGRAM



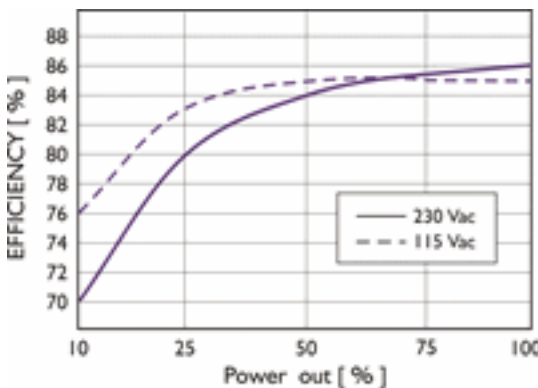
CIRCUIT SCHEMATIC



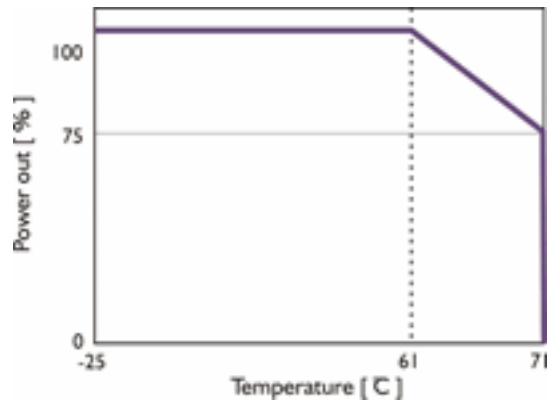
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



CONNECTION DETAILS

AWG24-12 (0.2-2mm²) flexible / solid cable, 7 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 70 C - Connector can withstand torque at maximum 6 pound-inches.

INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended Connector size range

PSB4/54/12/4.5



4.5A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 86%
- Compact design with a width of only 71mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W71 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	582000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	55 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	12 VDC
Output Current	4.5 A
Output Wattage	54 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	82%
Efficiency (typ.)	84%
Standard Packing Qty	1
Cat. No.	PSB4/54/12/4.5

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 71 x 56.5 mm
Packing	0.31 kg ; 48 pcs / 16kg / 2.28 CUFT
Weight	250 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	15 - 16.5 VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	30 A
Max. Inrush Current (Vi: 230 VAC)	60 A
Power Dissipation (Vi: 230 VAC, Io norm)	10.2 W
Rated Input Current -Max. (Vi : 115 VAC)	1.5 mA
Rated Input Current -Typ. (Vi : 115 VAC)	1.1 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	9-10.8 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	9-10.8 VDC
Efficiency	86%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	16 msec
Hold Up Time (Vi: 230VAC)	60 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	4.5 A
Output Voltage	12 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	12- 14 VDC

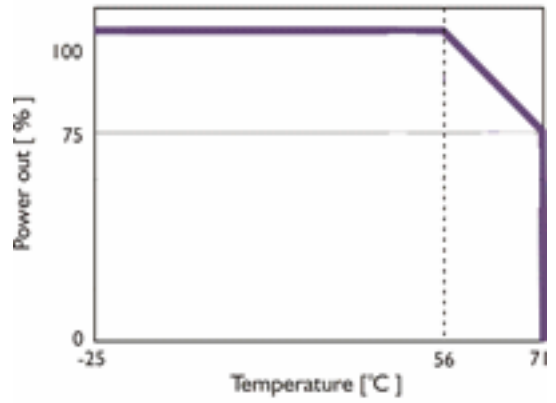
OUTPUT SPECIFICATIONS....

Power Back Immunity	18 VDC
Rated Continuous Loading	4.5A @ 12VDC / 3.8A @ 14VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
1	OUT	-	Negative output terminal
2	OUT	-	Negative output terminal
3	OUT	+	Positive output terminal
4	OUT	+	Positive output terminal
5	IN	L	Input terminals (phase conductor, no polarity at DC input)
6	IN	N	Input terminals (neutral conductor, no polarity at DC input)

DERATING CURVE



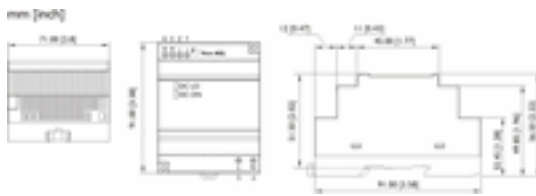
CONNECTION DETAILS

AWG24-12 (0.2-2mm²) flexible / solid cable, 7 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 70 C - Connector can withstand torque at maximum 6 pound-inches.

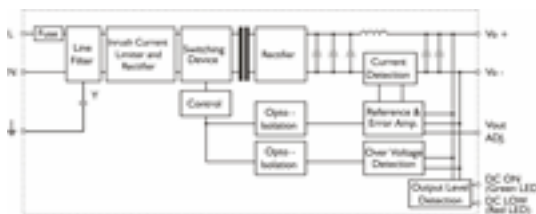
INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended Connector size range

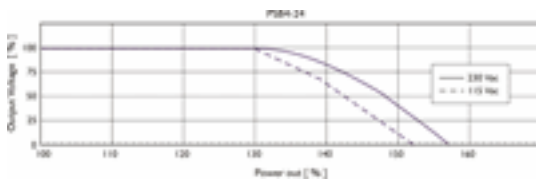
DIMENTIONAL DIAGRAM



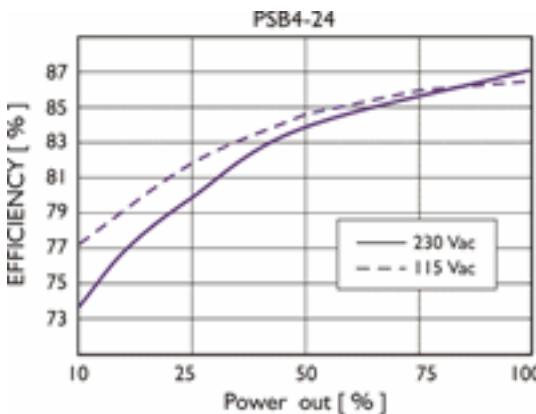
CIRCUIT SCHEMATIC



CURRENT LIMITED CURVE



EFFICIENCY CURVE



PSB572/12/6



6A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 89%
- Compact design with a width of only 90mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W90x D57 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	556000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	55 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	12 VDC
Output Current	6 A
Output Wattage	72 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	83%
Efficiency (typ.)	86%
Standard Packing Qty	1
Cat. No.	PSB572/12/6

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 90 x 57 mm
Packing	0.44 kg ; 40 pcs / 19kg / 2.28 CUFT
Weight	380 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T3.15A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	15 - 16.5 VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	30 A
Max. Inrush Current (Vi: 230 VAC)	60 A
Power Dissipation (Vi: 230 VAC, Io norm)	12.9 W
Rated Input Current -Max. (Vi : 115 VAC)	1.7 mA
Rated Input Current -Typ. (Vi : 115 VAC)	1.35 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	9-10.8 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	9-10.8 VDC
Efficiency	89%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	16 msec
Hold Up Time (Vi: 230VAC)	60 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	6 A
Output Voltage	12 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	12- 14 VDC
Power Back Immunity	18 VDC

PSB1/7.5/5/1.5



1.5A ,Single Phase Din Rail Mountable Step Type Switching Power Supplytest

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 80%
- Compact design with a width of only 18mm
- Two years product warrantytest

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air ConvectionFree Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W18 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	970000 hr
Pollution Degree	22
Relative Humidity Range	20-95 % RH
Switching Frequency (typ.)	90 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	5 VDC
Output Current	1.51.5 A
Output Wattage	7.57.5 W
Input Voltage Range	9090 - 264 VAC
Efficiency (min.)	72%
Efficiency (typ.)	74%
Standard Packing Qty	11
Cat. No.	PSB1/7.5/5/1.5

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 18 x 56.5 mm
Packing	0.11kg ; 120 pcs / 14.5kg / 2.28 CUFT
Weight	6565 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20IP20
Input fuse	T1A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	VaristorVaristor
Output short circuit	Fold forwardFold forward
Over voltage protection	5.75- 6.5 5.75- 6.5 VDC
Rated over load protection	110110-165 %

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	SingleSingle
Inrush Current (Vi: 115 VAC)	15 A
Inrush Current (Vi: 230 VAC)	30 A
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Power Dissipation (Vi: 230 VAC, Io norm)	2.3 W
Rated Input Current -Max. (Vi : 115 VAC)	300 mA
Rated Input Current -Typ. (Vi : 115 VAC)	200 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	3.5 to 4.5 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	3.5 to 4.5 VDC
Efficiency	8080%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	10 msec
Hold Up Time (Vi: 230VAC)	30 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	1.5 A
Output Voltage	55 VDC
Output Voltage Accuracy (Adjusted before shipment)	+/- 1 %

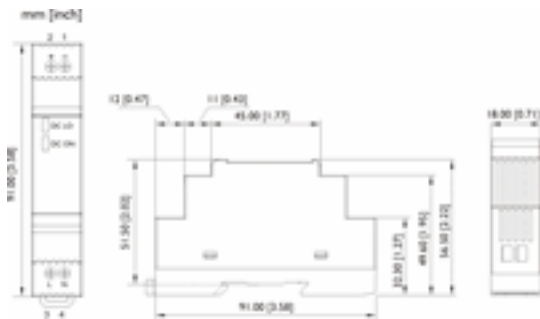
OUTPUT SPECIFICATIONS....

Power Back Immunity	7.5 VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

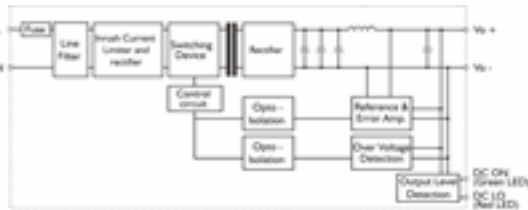
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
1	OUT	-	Negative output terminal
2	OUT	+	Positive output terminal
3	OUT	L	Input terminals (phase conductor, no polarity at DC input)
4	OUT	N	Input terminals (neutral conductor, no polarity at DC input)

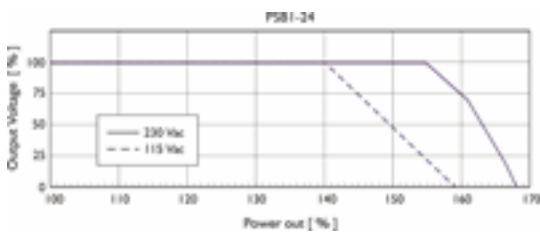
DIMENTISONAL DIAGRAM



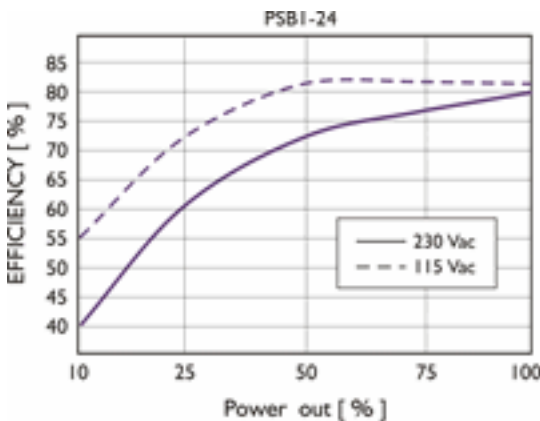
CIRCUIT SCHEMATIC



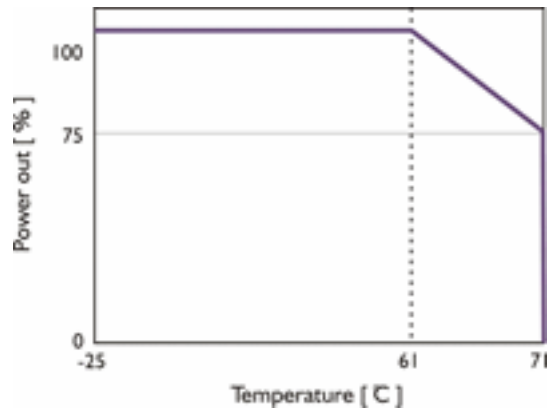
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended

CONNECTION DETAILS

Spring terminal: 2 AWG24-14 (0.2-2mm²) flexible / solid cable,- Connector can withstand torqueat maximum 5 pound-inches.4-5 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 75 C

PSB2/15/5/3



3A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 85%
- Compact design with a width of only 35mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	3000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W35 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	850000 hr
Pollution Degree	2
Relative Humidity Range	20 -95 % RH
Switching Frequency (typ.)	65 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	5 VDC
Output Current	3 A
Output Wattage	15 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	80%
Efficiency (typ.)	82%
Standard Packing Qty	1
Cat. No.	PSB2/15/5/3

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 35 x 56.5 mm
Packing	0.17kg ; 80 pcs / 15 kg / 1.82 CUFT
Weight	130 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Hiccup mode
Over voltage protection	5.75 - 6.5 VDC
Rated over load protection	120-160%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	20 A
Max. Inrush Current (Vi: 230 VAC)	40 A
Power Dissipation (Vi: 230 VAC, Io norm)	3.5 W
Rated Input Current -Max. (Vi : 115 VAC)	400 mA
Rated Input Current -Typ. (Vi : 115 VAC)	200 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	3.5-4.5 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	3.5-4.5 VDC
Efficiency	85%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	20 msec
Hold Up Time (Vi: 230VAC)	80 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	3 A
Output Voltage	5 VDC
Output Voltage Accuracy (Adjusted before shipment)	+/- 1 %

PSB3/22.5/5/4.5



4.5A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 84%
- Compact design with a width of only 53mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	3000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W53 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	689000 hr
Pollution Degree	2
Relative Humidity Range	20-95 % RH
Switching Frequency (typ.)	65 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	5 VDC
Output Current	4.5 A
Output Wattage	22.5 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	72%
Efficiency (typ.)	75%
Standard Packing Qty	1
Cat. No.	PSB3/22.5/5/4.5

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 53 x 56.5 mm
Packing	0.25kg ; 64 pcs / 17kg / 2.28 CUFT
Weight	190 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	5.75 - 6.5 VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	25 A
Max. Inrush Current (Vi: 230 VAC)	50 A
Power Dissipation (Vi: 230 VAC, Io norm)	7.5 W
Rated Input Current -Max. (Vi : 115 VAC)	600 mA
Rated Input Current -Typ. (Vi : 115 VAC)	480 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	3.5-4.5 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	3.5-4.5 VDC
Efficiency	84%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	20 msec
Hold Up Time (Vi: 230VAC)	100 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	4.5 A
Output Voltage	5 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	5 - 5.5 VDC

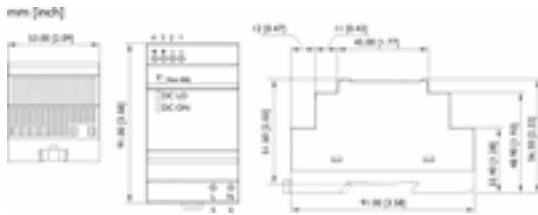
OUTPUT SPECIFICATIONS....

Power Back Immunity	7.5 VDC
Rated Continuous Loading	4.5A @ 5VDC / 4A @ 5.5VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

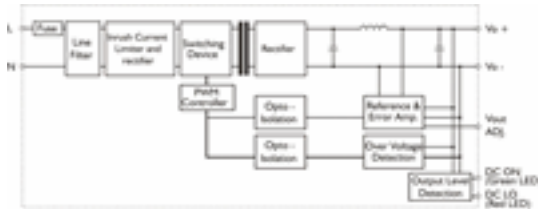
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
1	OUT	-	Negative output terminal
2	OUT	-	Negative output terminal
3	OUT	+	Positive output terminal
4	OUT	+	Positive output terminal
5	IN	L	Input terminals (phase conductor, no polarity at DC input)
6	IN	N	Input terminals (neutral conductor, no polarity at DC input)

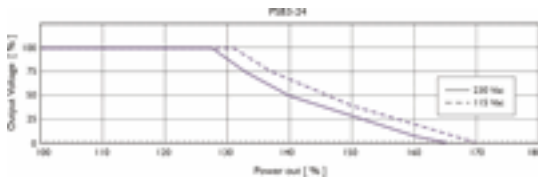
DIMENTISONAL DIAGRAM



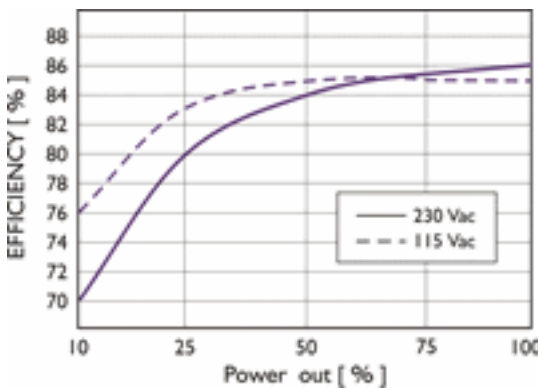
CIRCUIT SCHEMATIC



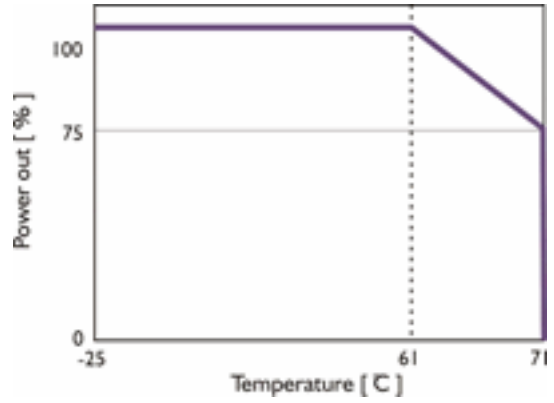
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



CONNECTION DETAILS

AWG24-12 (0.2-2mm²) flexible / solid cable, 7 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 70 C - Connector can withstand torque at maximum 6 pound-inches.

INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended Connector size range

PSB4/35/5/7



7A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 86%
- Compact design with a width of only 71mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W71 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	595000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	55 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	5 VDC
Output Current	7 A
Output Wattage	35 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	78%
Efficiency (typ.)	80%
Standard Packing Qty	1
Cat. No.	PSB4/35/5/7

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 71 x 56.5 mm
Packing	0.31 kg ; 48 pcs / 16kg / 2.28 CUFT
Weight	250 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	5.75 - 6.5VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	30 A
Max. Inrush Current (Vi: 230 VAC)	60 A
Power Dissipation (Vi: 230 VAC, Io norm)	8.8 W
Rated Input Current -Max. (Vi : 115 VAC)	1 mA
Rated Input Current -Typ. (Vi : 115 VAC)	0.7 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	3.5-4.5 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	3.5-4.5 VDC
Efficiency	86%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	16 msec
Hold Up Time (Vi: 230VAC)	60 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	7 A
Output Voltage	5 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	5 - 5.5 VDC

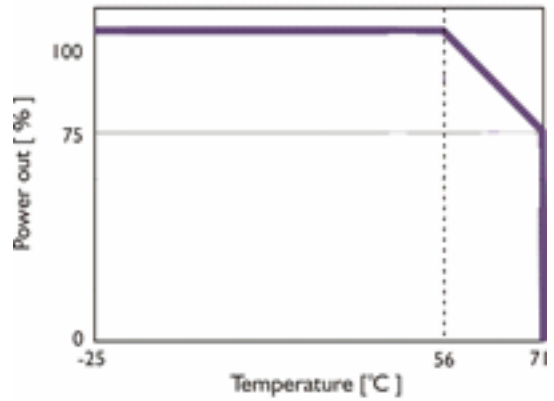
OUTPUT SPECIFICATIONS....

Power Back Immunity	7.5 VDC
Rated Continuous Loading	7A @ 5VDC / 6.3A @ 5.5VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
1	OUT	-	Negative output terminal
2	OUT	-	Negative output terminal
3	OUT	+	Positive output terminal
4	OUT	+	Positive output terminal
5	IN	L	Input terminals (phase conductor, no polarity at DC input)
6	IN	N	Input terminals (neutral conductor, no polarity at DC input)

DERATING CURVE



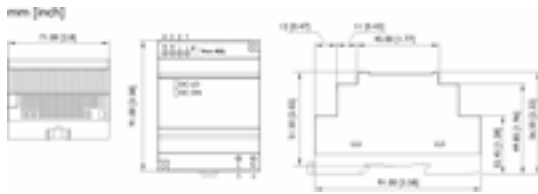
INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended Connector size range

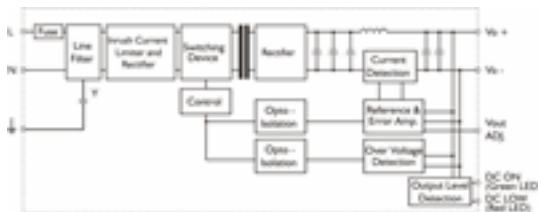
CONNECTION DETAILS

AWG24-12 (0.2-2mm²) flexible / solid cable, 7 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 70 C - Connector can withstand torque at maximum 6 pound-inches.

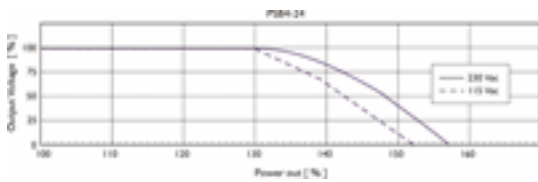
DIMENTISONAL DIAGRAM



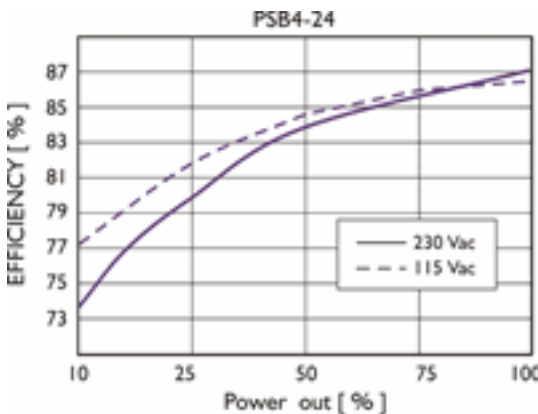
CIRCUIT SCHEMATIC



CURRENT LIMITED CURVE



EFFICIENCY CURVE



PSB5/60/5/12



12A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 89%
- Compact design with a width of only 90mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W90x D57 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	566000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	55 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	5 VDC
Output Current	12 A
Output Wattage	60 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	78%
Efficiency (typ.)	80%
Standard Packing Qty	1
Cat. No.	PSB5/60/5/12

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 90 x 57 mm
Packing	0.44 kg ; 40 pcs / 19kg / 2.28 CUFT
Weight	380 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T3.15A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	5.75 - 6.5 VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	30 A
Max. Inrush Current (Vi: 230 VAC)	60 A
Power Dissipation (Vi: 230 VAC, Io norm)	15.6 W
Rated Input Current -Max. (Vi : 115 VAC)	1.5 mA
Rated Input Current -Typ. (Vi : 115 VAC)	1.15 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	3.5-4.5 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	3.5-4.5 VDC
Efficiency	89%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	16 msec
Hold Up Time (Vi: 230VAC)	60 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	12 A
Output Voltage	5 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	5 - 5.5 VDC
Power Back Immunity	7.5 VDC

PSB1/10/15/0.67



0.67A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 80%
- Compact design with a width of only 18mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W18 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	948000 hr
Pollution Degree	2
Relative Humidity Range	20 -95 % RH
Switching Frequency (typ.)	90 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	15 VDC
Output Current	0.67 A
Output Wattage	10 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	76%
Efficiency (typ.)	78%
Standard Packing Qty	1
Cat. No.	PSB1/10/15/0.67

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 18 x 56.5 mm
Packing	0.11kg ; 120 pcs / 14.5kg / 2.28 CUFT
Weight	65 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T1A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	18 - 20 VDC
Rated over load protection	110-165 %

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	67 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	15 A
Max. Inrush Current (Vi: 230 VAC)	30 A
Power Dissipation (Vi: 230 VAC, Io norm)	2.3 W
Rated Input Current -Max. (Vi : 115 VAC)	300 mA
Rated Input Current -Typ. (Vi : 115 VAC)	200 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	11-13.5 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	11-13.5 VDC
Efficiency	80%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	10 msec
Hold Up Time (Vi: 230VAC)	30 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	0.67 A
Output Voltage	15 VDC
Output Voltage Accuracy (Adjusted before shipment)	+/- 1 %

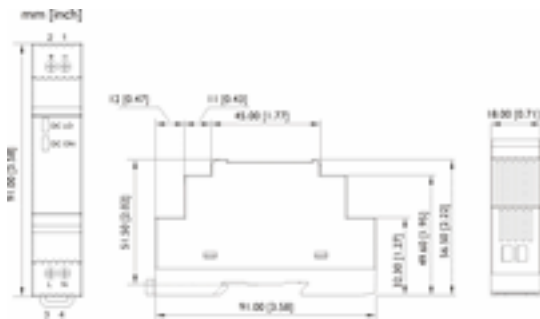
OUTPUT SPECIFICATIONS....

Power Back Immunity	22 VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

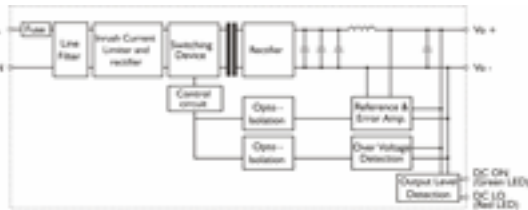
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
1	OUT	-	Negative output terminal
2	OUT	+	Positive output terminal
3	OUT	L	Input terminals (phase conductor, no polarity at DC input)
4	OUT	N	Input terminals (neutral conductor, no polarity at DC input)

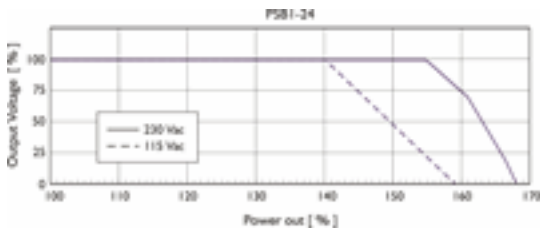
DIMENTISONAL DIAGRAM



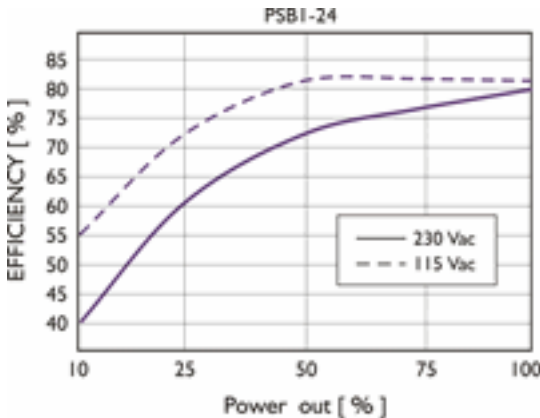
CIRCUIT SCHEMATIC



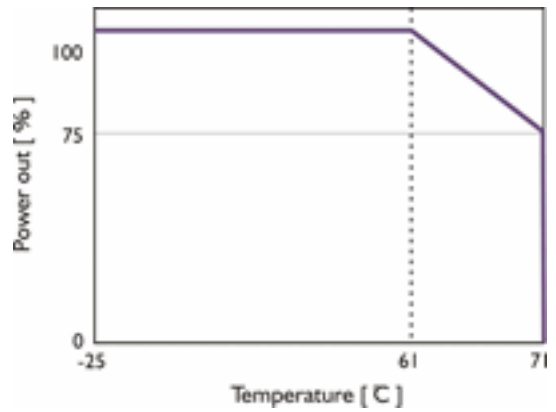
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended

CONNECTION DETAILS

Spring terminal: 2 AWG24-14 (0.2-2mm) flexible / solid cable,- Connector can withstand torqueat maximum 5 pound-inches.4-5 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 75 C

PSB2/24/15/1.6



1.6A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 85%
- Compact design with a width of only 35mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	3000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W35 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	811000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	65 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	15 VDC
Output Current	1.6 A
Output Wattage	24 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	82%
Efficiency (typ.)	85%
Standard Packing Qty	1
Cat. No.	PSB2/24/15/1.6

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 35 x 56.5 mm
Packing	0.17kg ; 80 pcs / 15 kg / 1.82 CUFT
Weight	130 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2,EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Hiccup mode
Over voltage protection	18 - 20 VDC
Rated over load protection	120-160%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	20 A
Max. Inrush Current (Vi: 230 VAC)	40 A
Power Dissipation (Vi: 230 VAC, Io norm)	4.3 W
Rated Input Current -Max. (Vi : 115 VAC)	600 mA
Rated Input Current -Typ. (Vi : 115 VAC)	450 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	11-13.5 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	11-13.5 VDC
Efficiency	85%
Hold Up Time (Vi: 115VAC)	20 msec
Hold Up Time (Vi: 230VAC)	80 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	1.6 A
Output Voltage	15 VDC
Output Voltage Accuracy (Adjusted before shipment)	+/- 1 %
Output Voltage Trim Range	13.5 - 16.5 VDC

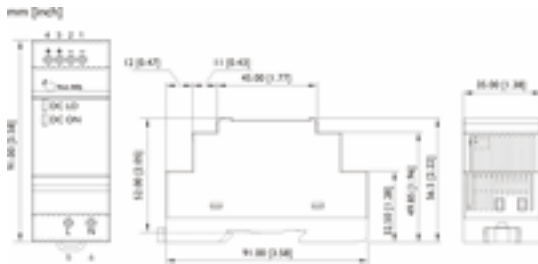
OUTPUT SPECIFICATIONS....

Power Back Immunity	22 VDC
Rated Continuous Loading	1.6A @ 15VDC / 1.4A @ 16.5VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

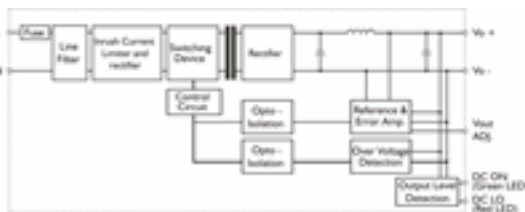
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
1	OUT	-	Negative output terminal
2	OUT	-	Negative output terminal
3	OUT	+	Positive output terminal
4	OUT	+	Positive output terminal
5	IN	L	Input terminals (phase conductor, no polarity at DC input)
6	IN	N	Input terminals (neutral conductor, no polarity at DC input)

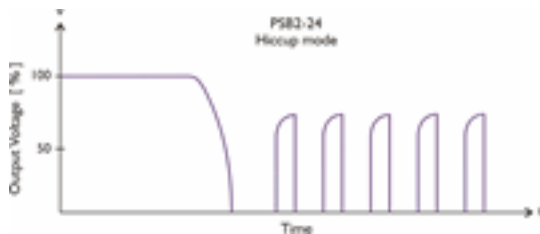
DIMENTISONAL DIAGRAM



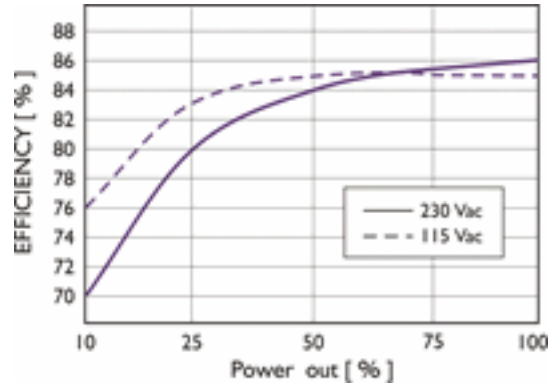
CIRCUIT SCHEMATIC



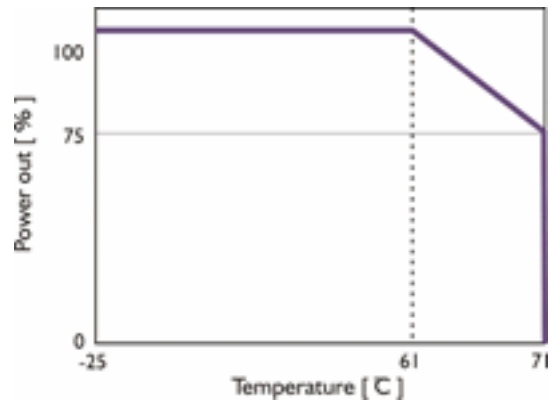
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended

CONNECTION DETAILS

Spring terminal: 2 AWG24-14 (0.2-2mm²) flexible / solid cable,- Connector can withstand torque at maximum 5 pound-inches.4-5 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 75 C

PSB3/36/15/2.4



2.4A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 84%
- Compact design with a width of only 53mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	3000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W53 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	710000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	65 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	15 VDC
Output Current	2.4 A
Output Wattage	36 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	81%
Efficiency (typ.)	84%
Standard Packing Qty	1
Cat. No.	PSB3/36/15/2.4

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 53 x 56.5 mm
Packing	0.25kg ; 64 pcs / 17kg / 2.28 CUFT
Weight	190 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	18 - 20 VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	25 A
Max. Inrush Current (Vi: 230 VAC)	50 A
Power Dissipation (Vi: 230 VAC, Io norm)	7.4 W
Rated Input Current -Max. (Vi : 115 VAC)	900 mA
Rated Input Current -Typ. (Vi : 115 VAC)	680 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	11-13.5 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	11-13.5 VDC
Efficiency	84%
Hold Up Time (Vi: 115VAC)	20 msec
Hold Up Time (Vi: 230VAC)	100 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	2.4 A
Output Voltage	15 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	13.5 - 16.5 VDC
Power Back Immunity	22 VDC

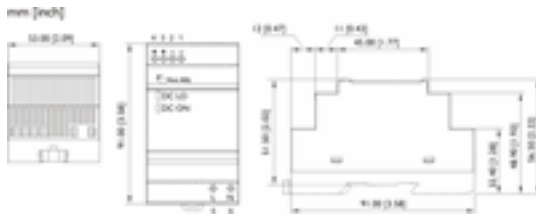
OUTPUT SPECIFICATIONS....

Rated Continuous Loading	2.4A @ 15VDC / 2.1A @ 16.5VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

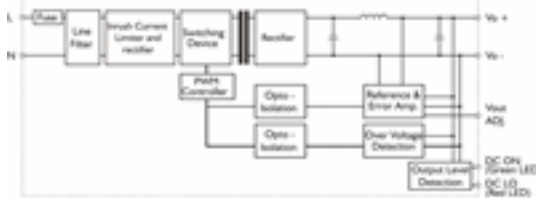
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
1	OUT	-	Negative output terminal
2	OUT	-	Negative output terminal
3	OUT	+	Positive output terminal
4	OUT	+	Positive output terminal
5	IN	L	Input terminals (phase conductor, no polarity at DC input)
6	IN	N	Input terminals (neutral conductor, no polarity at DC input)

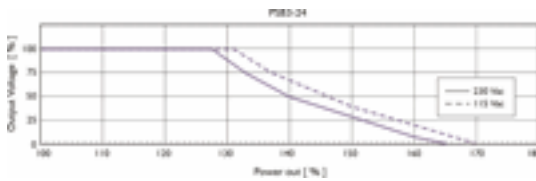
DIMENTENSIONAL DIAGRAM



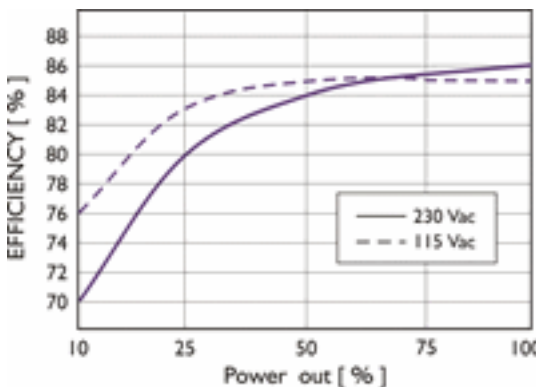
CIRCUIT SCHEMATIC



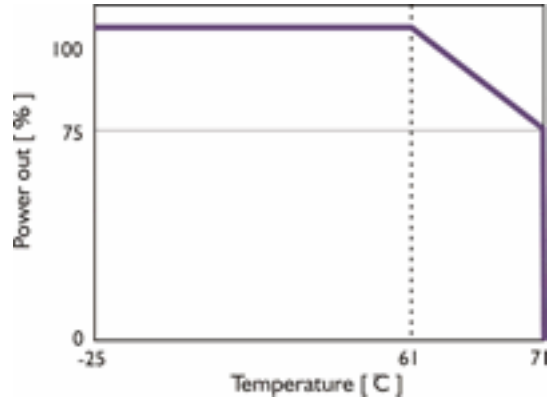
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended Connector size range

CONNECTION DETAILS

AWG24-12 (0.2-2mm²) flexible / solid cable, 7 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 70 C - Connector can withstand torque at maximum 6 pound-inches.

PSB4/60/15/4



4A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 86%
- Compact design with a width of only 71mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W71 x D56.5 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	582000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	55 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	15 VDC
Output Current	4 A
Output Wattage	60 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	83%
Efficiency (typ.)	85%
Standard Packing Qty	1
Cat. No.	PSB4/60/15/4

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 71 x 56.5 mm
Packing	0.31 kg ; 48 pcs / 16kg / 2.28 CUFT
Weight	250 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	18 -20 VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	30 A
Max. Inrush Current (Vi: 230 VAC)	60 A
Power Dissipation (Vi: 230 VAC, Io norm)	10 W
Rated Input Current -Max. (Vi : 115 VAC)	1.5 mA
Rated Input Current -Typ. (Vi : 115 VAC)	1.1 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	11-13.5 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	11-13.5 VDC
Efficiency	86%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	12 msec
Hold Up Time (Vi: 230VAC)	60 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	4 A
Output Voltage	15 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	13.5 - 16.5 VDC

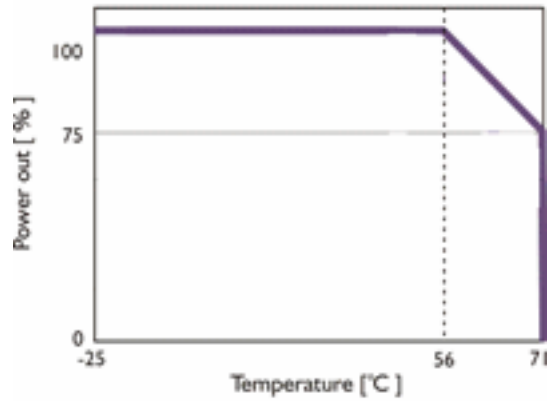
OUTPUT SPECIFICATIONS....

Power Back Immunity	22 VDC
Rated Continuous Loading	4A @ 15VDC / 3.6A @ 16.5VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
	OTHER	DC LO	DC LOW indicator LED
	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
1	OUT	-	Negative output terminal
2	OUT	-	Negative output terminal
3	OUT	+	Positive output terminal
4	OUT	+	Positive output terminal
5	IN	L	Input terminals (phase conductor, no polarity at DC input)
6	IN	N	Input terminals (neutral conductor, no polarity at DC input)

DERATING CURVE



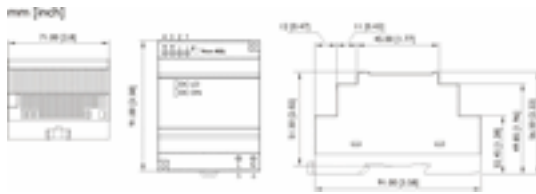
INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended Connector size range

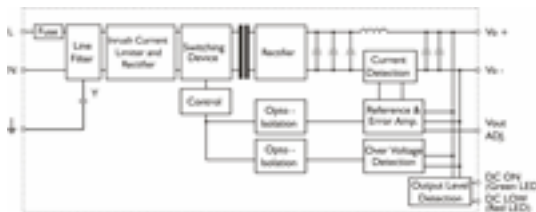
CONNECTION DETAILS

AWG24-12 (0.2-2mm²) flexible / solid cable, 7 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 70 C - Connector can withstand torque at maximum 6 pound-inches.

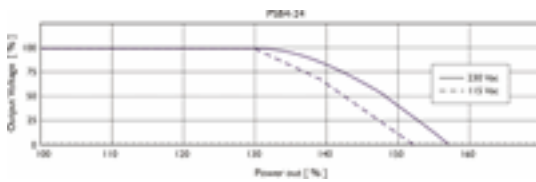
DIMENTISONAL DIAGRAM



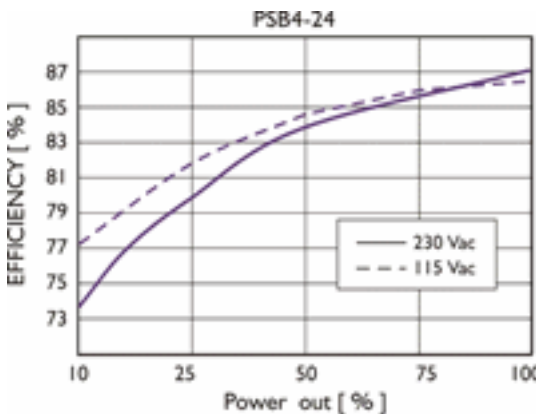
CIRCUIT SCHEMATIC



CURRENT LIMITED CURVE



EFFICIENCY CURVE



PSB5/75/15/5



5A ,Single Phase Din Rail Mountable Step Type Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 89%
- Compact design with a width of only 90mm
- Two years product warranty

GENERAL SPECIFICATION

Altitude During Operation (IEC 60068-2-13)	2000 m
Ambient Temperature Range (Operational at Vi norm)	-25 to +71 deg.C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Cooling	Free Air Convection
Derating from +61°C to +71°C (see derating curve)	2.5% per °C
Dimension	L91 x W90x D57 mm
Isolation Resistance (Input-Output @500VDC)	100 M
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
MTBF (Bellcore Issue 6 @40°C, GB)	564000 hr
Pollution Degree	2
Relative Humidity Range	20 - 95 % RH
Switching Frequency (typ.)	55 KHz
Temperature Coefficient Range	+/- 0.03 % / Degree celcius

ORDERING INFORMATION

Output Voltage	15 VDC
Output Current	5 A
Output Wattage	75 W
Input Voltage Range	90 - 264 VAC
Efficiency (min.)	83%
Efficiency (typ.)	86%
Standard Packing Qty	1
Cat. No.	PSB5/75/15/5

PHYSICAL SPECIFICATIONS

Case Material	Plastic
Dimensions (H x W x D)	91 x 90 x 57 mm
Packing	0.44 kg ; 40 pcs / 19kg / 2.28 CUFT
Weight	380 g

APPROVALS



ACCESSORIES

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA202	End Clamp in Polyamide suitable for Din 35 / Din 35-15 Rails	50

ACCESSORIES....

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCPH1	Phillips Screwdriver for Phillips Recess screws	10

Standard Used for Testing

CAT. NO.	DESCRIPTION
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024, EN 61000-4-2 Level 4, EN 61000-4-3 Level 3 EN 61000-4-4 Level 4, EN 61000-4-5 L-N Level 3, L / N-FG Level 4 EN 61000-4-6 Level 3, EN 61000-4-8
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)
TUV	EN 60950-1, CB scheme
UL/cUL	UL 508 Listed UL 60950-1, UL 1310 Class 2 Power Recognized ISA 12.12.01(Class 1, Division 2, Groups A, B, C and D)
Vibration Resistance	meet IEC 60068-2-6 (Mounting by rail : 10-500 Hz, 2G, along X, Y, Z each Axis, 60 min for each Axis)

CONTROL AND PROTECTION SPECIFICATIONS

Degree of protection	IP20
Input fuse	T3.15A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Output short circuit	Fold forward
Over voltage protection	18 - 20 VDC
Rated over load protection	110-150%

INPUT SPECIFICATIONS

AC Input Voltage Range	90 to 264
DC Input Voltage Range	120 to 375
Input Phase	Single
Leakage Current (Input-Output)	0.25 mA
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	30 A
Max. Inrush Current (Vi: 230 VAC)	60 A
Power Dissipation (Vi: 230 VAC, Io norm)	12.5 W
Rated Input Current -Max. (Vi : 115 VAC)	1.7 mA
Rated Input Current -Typ. (Vi : 115 VAC)	1.35 mA
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC

OUTPUT SPECIFICATIONS

Capacitor Load	3500 µF
DC LOW Indicator Threshold after start up (Red LED)	11-13.5 VDC
DC On Indicator	Green
DC ON Indicator Threshold at start up (Green LED)	11-13.5 VDC
Efficiency	89%
Fall Time	150 msec
Hold Up Time (Vi: 115VAC)	10 msec
Hold Up Time (Vi: 230VAC)	60 msec
Line Regulation	+/- 1 %
Load Regulation	+/- 1 %
Minimum Load	0 %
Output Current	5 A
Output Voltage	15 VDC
Output Voltage Accuracy (Adjusted before shipment)	+ 1 %
Output Voltage Trim Range	13.5 - 16.5 VDC
Power Back Immunity	22 VDC

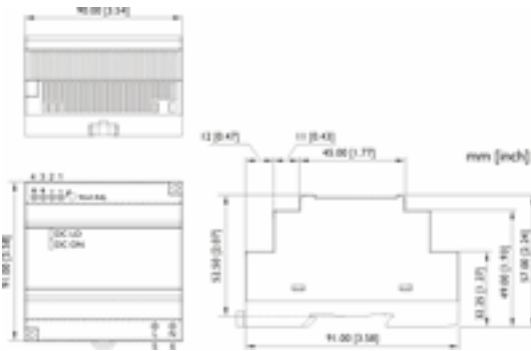
OUTPUT SPECIFICATIONS.....

Rated Continuous Loading	5A @ 15VDC / 4.5A @ 16.5VDC
	50 mV
Rise Time	150 ms
Rise Time With 3500 μ F	500 ms
Transient Recovery Time	2 ms
Turn On Time	1000 ms
Turn On Time With 3500 μ F	1500 msec

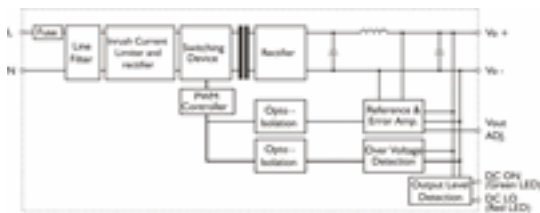
ORDERING INFORMATION

PIN NO	POSITION	DESIGNATION	DESCRIPTION
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	OTHER	DC ON	Operation indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
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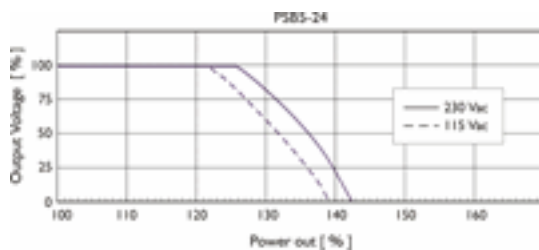
DIMENTISONAL DIAGRAM



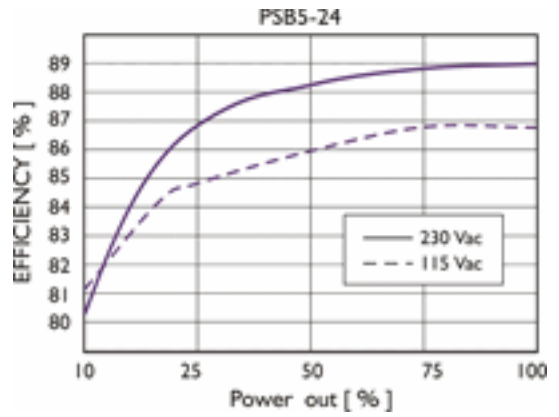
CIRCUIT SCHEMATIC



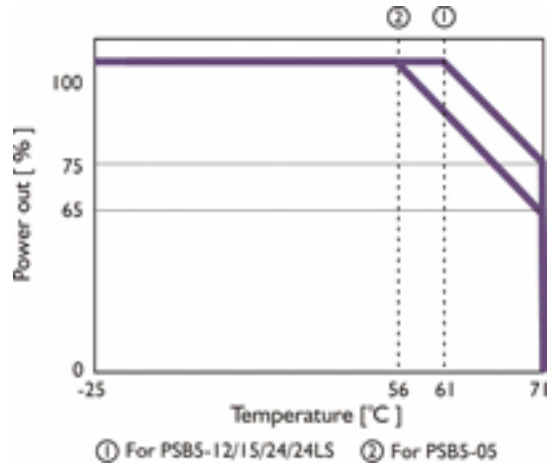
CURRENT LIMITED CURVE



EFFICIENCY CURVE



DERATING CURVE



CONNECTION DETAILS

AWG24-12 (0.2-2mm²) flexible / solid cable, 7 m/m stripping at cable end recommends 0 Use copper conductors only, 60 / 70 C - Connector can withstand torque at maximum 6 pound-inches.

INSTALLATION DETAILS

Ventilation / Cooling Normal convection All sides 25mm free space For cooling recommended Connector size range