

# PSS18/12/1.5



## 1.5A, 18W Single Phase Din Rail Mountable Switching Power Supplies

- Full Range Input selection from 90 to 264VAC
- Typical efficiency of 77%
- Compact design with a width of only 22.5mm
- Two years product warranty

### GENERAL SPECIFICATION

Switching Frequency (typ.)	132 KHz
Min. Isolation Voltage -AC (Input-FG)	1500 VAC
Min. Isolation Voltage -AC (Input-Output)	3000 VAC
Min. Isolation Voltage -DC (Input-FG)	2121 VDC
Min. Isolation Voltage -DC (Input-Output)	4242 VDC
Isolation Resistance (Input-Output @500VDC)	100 MΩ
Ambient Temperature Range (Operational at Vi norm)	-20 to +71 deg.C
Derating from +61°C to +71°C (see derating curve)	2.5%/ °C
Ambient Temperature Range (Storage)	-25 to +85 deg.C
Relative Humidity Range	20 to 95 %RH
Temperature Coefficient Range	+/- 0.03 % per deg. C
MTBF (Bellcore Issue 6 @40°C, GB)	797000 hr
Altitude During Operation (IEC 60068-2-13)	4850 m
Dimension	Spring Terminal Type , L90 X W22.5 X D114 mm
Cooling	Free Air Convection
Pollution Degree	2

### ORDERING INFORMATION

Cat. No.	PSS18/12/1.5
Output Voltage	12 VDC
Output Current	1500 mA
Output Wattage	18 W
Efficiency (min.)	75%
Efficiency (typ.)	77%
Input Voltage Range	90 - 264 VAC
Standard Packing Qty	1

### PHYSICAL SPECIFICATIONS

Dimensions (H x W x D)	90 X 22.5 X 114 mm
Weight	150 g
Case Material	Plastic
Packing	0.23 kg / 56 pcs / 14 kg / 2.16 CUFT

### 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	25
	CA702	End Clamp in Polyamide 66 suitable for Din 32 / Din 35 / Din 35-15 Rails	50
	SCS0.5/3	Electricians Screwdriver for slotted screws	10

### STANDARD USED FOR TESTING

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)
TUV	EN 60950-1, CB scheme
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
CCC	GB4943, GB9254, GB17625.1
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)
Shock Resistance	meet IEC 60068-2-27 (15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face)

### INPUT SPECIFICATIONS

Input Phase	Single
AC Input Voltage Range	90 to 264

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THE RIGHT CONNECTION

INPUT SPECIFICATIONS	
DC Input Voltage Range	120 to 375
Rated Max. Input Voltage	240 VAC
Rated Min. Input Voltage	100 VAC
Line Frequency-Max.	63 Hz
Line Frequency-Min.	47 Hz
Max. Inrush Current (Vi: 115 VAC)	10 A
Max. Inrush Current (Vi: 230 VAC)	18 A
Rated Input Current -Typ. (Vi : 90 VAC)	500 mA
Rated Input Current -Typ. (Vi : 115 VAC)	335 mA
Rated Input Current -Typ. (Vi : 230 VAC)	210 mA
Power Dissipation (Vi: 230 VAC, Io norm)	4.65 W
Leakage Current (Input-Output)	0.25 mA

OUTPUT SPECIFICATIONS	
Output Voltage	12 VDC
Output Current	1500 mA
Output Voltage Accuracy (Adjusted before shipment)	0 to +1 %
Minimum Load	0 %
Line Regulation	+/-1 %
Load Regulation	+/-2 %
Output Voltage Trim Range	-10 to +15 %
Rated Continuous Loading	1.5A @12Vdc / 1.3A @13.8Vdc
Hold Up Time	25 msec
Hold Up Time ( Vi: 115VAC)	25 msec
Hold Up Time ( Vi: 230VAC)	75 msec
Turn On Time	1000 ms
Turn On Time With 7000 µF	1500 msec
Rise Time	150 ms
Rise Time With 7000 µF	500 ms
Fall Time	150 msec
Transient Recovery Time	2 ms
Ripple and Noise (BW = 20MHz)	50 mV
Power Back Immunity	18 VDC
Capacitor Load	7000 µF
DC ON Indicator Threshold at start up (Green LED)	9.0 to 10.8VDC
DC LOW Indicator Threshold after start up (Red LED)	9.0 to 10.8VDC
Efficiency	77%

PIN CONFIGURATION			
PIN NO	POSITION	DESIGNATION	DESCRIPTION
4	IN	N	Input terminals (neutral conductor,no polarity at DC input)
5	IN	L	Input terminals (phase conductor,no polarity at DC input)
	OTHER	ON	Operation indicator LED
	OTHER	LO	DC LOW indicator LED
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment

PIN CONFIGURATION			
PIN NO	POSITION	DESIGNATION	DESCRIPTION
1	OUT	V+	Positive output terminal
2	OUT	V-	Negative output terminal
3	IN	Ground	Ground this terminal to minimize high frequency emissions