PSS5/5/1

connectwell
THE RIGHT CONNECTION

1A,Single Phase Din Rail Mountable Switching Power Supplies

-Full Range Input selection from 90 to 265 VAC

-Typical efficiency of 69%

-Compact Design with a width of only 22.5 mm

-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 cel
Derating from +61°C to +71°C (see derating curve)	2.5% / °C
Ambient Temperature Range (Storage)	-25 to +85 deg cel
Relative Humidity Range	20 to 95 % RH
Temperature Coefficient Range	± 0.03 % per deg.cel
MTBF (Bellcore Issue 6 @40°C, GB)	801000 hr
Altitude During Operation (IEC 60068-2-13)	4850 m
Dimension	Spring terminal type L90 x W22.5 x D114
Cooling	Free air convection
Pollution Degree	2

ORDERING INFORMATION

Cat. No.	PSS5/5/1
Output Voltage	5 V
Output Current	1 A
Output Wattage	5 W
Efficiency (min.)	67%
Efficiency (typ.)	69%
Input Voltage Range	90~264 VAC
Standard Packing Qnty	1

PHYSICAL SPECIFICATIONS

Dimensions (H x W x D)	90 X 22.5 X 114 mm
Weight	120 g
Case Material	Plastic
Packing	0.21 kg ; 56 pcs / 12.5 kg / 2.16 CUFT

APPROVALS

CE cULus

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
	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 I, 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

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INPUT SPECIFICATIONS	
AC Input Voltage Range	90 to 264
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 : 115 VAC)	115 mA
Rated Input Current -Typ. (Vi : 230 VAC)	80 mA
Rated Input Current -Max. (Vi : 115 VAC)	115 mA
Rated Input Current -Max. (Vi : 230 VAC)	200 mA
Power Dissipation (Vi: 230 VAC, Io norm)	2.2 W
Leakage Current (Input-Output)	0.25 mA

OUTPUT SPECIFICATIONS	
Output Voltage	5 V
Output Current	1 A
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	1.0 A @ 5Vdc / 0.85 A @ 5.75 Vdc
Hold Up Time (Vi: 115VAC)	30 msec
Hold Up Time (Vi: 230VAC)	130 msec
Turn On Time	1000 msec
Turn On Time With 3500 µF	1500 msec
Rise Time	150 ms
Rise Time With 3500 µF	500 ms
Fall Time	150 msec
Transient Recovery Time	2 ms
Ripple and Noise (BW = 20MHz)	50 mV
Power Back Immunity	7.5 VDC
Capacitor Load	3500 µF
DC ON Indicator Threshold at start up (Green LED)	3.5 to 4.5 VDC
DC LOW Indicator Threshold after start up (Red LED)	3.5 to 4.5 VDC
Efficiency	69%,

CONTROL AND PROTECTION SPECIFICATIONS	
Input fuse	T2A / 250VAC internal
Internal surge voltage protection: IEC61000-4-5	Varistor
Rated over load protection	110 to 135 %

CONTROL AND PROTECTION SPECIFICATIONS	
Over voltage protection	125 to 145 %
Output short circuit	Hiccup mode
Degree of protection	IP20

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 emmissions
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

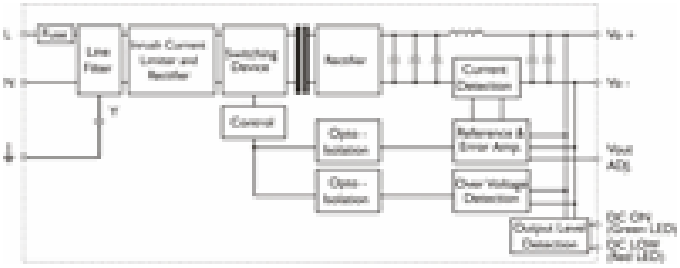
CONNECTION DETAILS

Spring terminal: AWG24-14 (0.2~2mm) flexible / solid cable, 10 m/m stripping at cable end recommends Use copper conductors only, 60 / 75 C

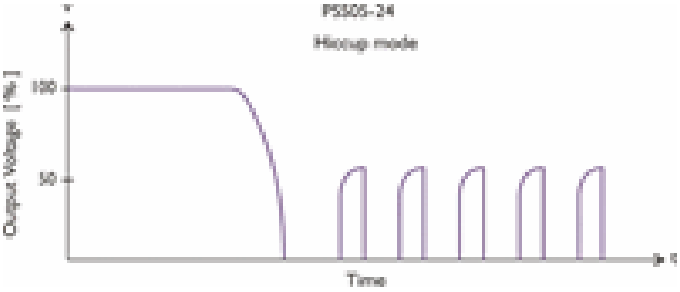
INSTALLATION DETAILS

Cooling Normal convection.All sides 25mm free space.For cooling recommened connector size range spring terminal : AWG24-14 (0.2-2 sq.mm) flexible/solid cable, 10m/m stripping at cable end recommends.Use Cu conductors only, 60/75 deg.C

CIRCUIT SCHEMATIC



CURRENT LIMITED CURVE



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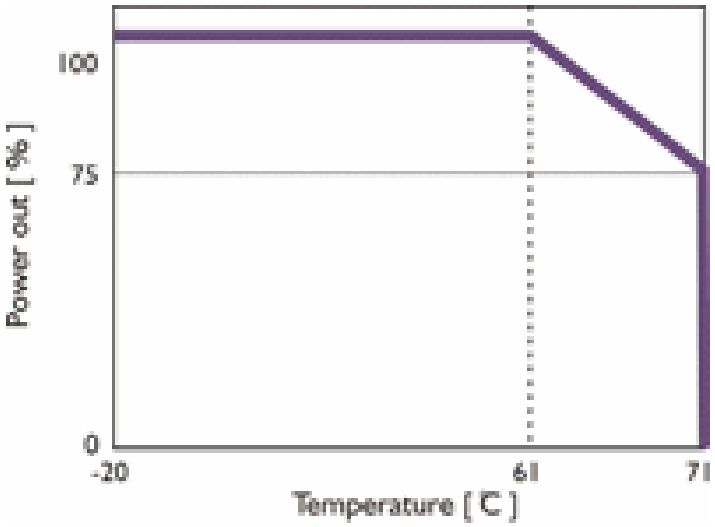
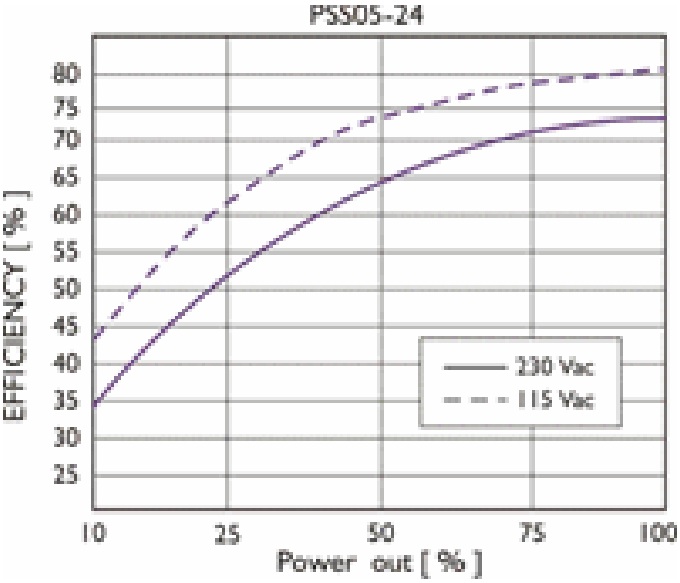
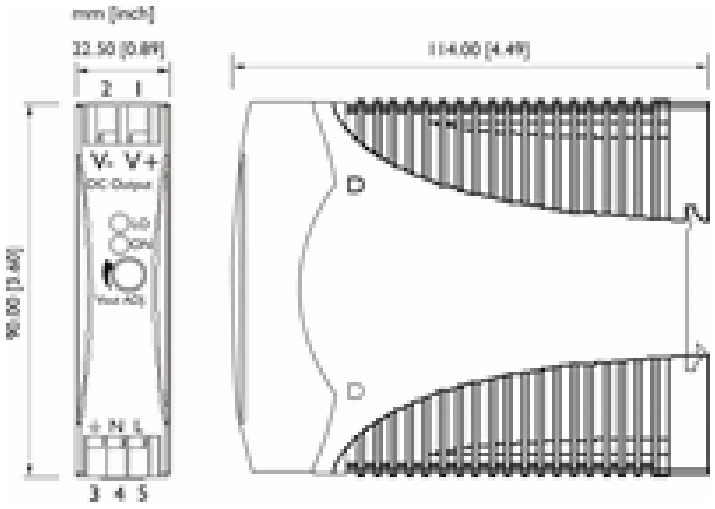
DERATING CURVE



EFFICIENCY CURVE



DIMENSIONAL DIAGRAM



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