

24VDC 160 WATT SWITCHING POWER SUPPLY

PS111



Overview

The PS111 is an AC to DC switching desktop style power supply. It has a single output rated at 24VDC, 6.67 amps, 160 Watts. The AC power inlet is a 60320-C14 allowing for easy connection to different world AC power mains systems. The DC output connector is a 4 pin Power DIN.

Applications

Powers Ramsey Electronics STEUSB3CC interface. Power devices requiring 24VDC up to 6.67 amps.

Features

- Works with most world power systems.
- 3-pole AC power inlet IEC60320-C14.
- 4 Pin Power DIN output connector.
- Wide working temperature range, -30 to +70°C.
- LED Power indicator.
- Fully enclosed plastic case.

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PS111 Power Supply Specifications

Output Power Specifications:

24VDC Typical.
6.67 Amps Maximum.
160 Watts Maximum.
150mVp-p.
±3.0% Typical.
4 Pin Power DIN.

Input Power Specifications:

Voltage:	85 to 264VAC.
Frequency:	47 to 63Hz.
Current:	1.85A @ 115VAC, 1A @ 230VAC.
Inrush Current:	95Amps @115VAC, 120A @ 230VAC, cold start. 60 Amps Maximum @230VAC, full load, 25°C, cold start.
Leakage Current: Connector:	0.75 Milliamps @ 240VAC. IEC60320-C14

Protections:

Over Voltage Protection:	105-135% Rated Output Voltage.
Over Power Protection:	105-150% Rated Power.

Mechanical:

Working Temperature:	-30 to +70°C.
Storage Temperature:	-40 to +85°C.
Working Humidity:	20 to 90% RH non-condensing.
Storage Humidity:	10 to 95% RH non-condensing.
Vibration:	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y,
	Z axes175

Output Connector Pinout:

1	2
6)
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Pin #	Output
1	+24
2	Ground *
3	Ground *
4	+24

* Tied to AC input ground on IEC60320-C14 ground pin.



Safety & Compliance:

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	Safety Approvals:	UL62368-1, CSA C22.2 No.62368-1, TUV BS EN/EN62368-1, BSMI CNS14336, CCC GB4943.1, PSE J62368-1,AS/NZS
		60950.1, BIS IS13252, KC K60950-1, EAC TP TC 004 approved.
	Withstanding Voltage:	I/P-O/P: 3KVAC I/P-FG: 2KVAC O/P-FG:SHORT
	Insulation Resistance:	I/P-O/P:100M Ohms / 500VDC / 25°/ 70% RH.
	Conducted Emission:	BS EN/EN55032(CISPR32), FCC PART 15 / CISPR22 CAN
		ICES-3(B)/NMB-3(B), GB17625.1 EAC TP TC020,MSIP KN32;
		CLASS B.
	Radiated Emission:	BS EN/EN55032(CISPR32), FCC PART 15 / CISPR22 CAN ICES-
		3(B)/NMB-3(B), CNS13438, GB17625.1 EAC TP TC 020, MSIP
		KN32; CLASS B.
	Harmonic Current:	BS EN/EN61000-3-2, GB9254; CLASS A.
	ESD:	BS EN/EN61000-4-2: Level 4, 15KV air: Level 4, 8KV contact.
	RF Field Susceptibility:	BS EN/EN61000-4-3 Level 2, 1KV
	Surge Suscentibility:	BS EN/EN61000-4-5: Level 3, 1K\//Line-Line, 2K\//Line-EG
	Conducted Succeptibility:	PS = N/EN61000 4.6 + Lovel 2.2V/
	Conducted Susceptibility.	DO LIV/LIVUIUUU-4-U, LEVELZ, JV .



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