Pollock Industries

Technical Data Sheet

100 Watt 12 Volt, Low Profile, Single Output, Power Supply with PFC

UNIT CODE

DESCRIPTION

PS-RSP 100-12

100 Watt, 12V, Single Output, 30mm Low Profile, Enclosed Power Supply with PFC Function

SPECIFICATIONS			
Input	Output	Approvals	
Universal 85 ~ 264VAC	+12VDC @ 0 ~ 8.5A		

Features at a Glance:

Priced Economically

Universal AC Input for Worldwide Use

30mm low profile 1U design

Constant current limiting circuit

Efficient (86%) and cooled by natural convection

Active PFC and Remote ON-OFF control

Protections: Short circuit, Overload, Over voltage, Over temperature

Simple (-5% ~ +10%) output voltage adjustment

LED indicator for Power ON

Safety Standards: UL60950-1, TUV EN60950-1 EN61558-2-16, CCC GB4943

EMC: Light Industry level, criteria A - See following pages for complete EMC details

Certificates: UL / CUL / TUV / CB / CE / CCC

MBTF: 288.5K hours min. *MIL-HDBK-217F (25°C)* Case: 227A

Weight: 1.14 lbs. (0.52 Kgs)

Dimensions: 7.04"L x 3.89"W x 1.18"H 179L X 99W X 30mmH

3 year warranty

Click for more information



The PS- RSP 100 series is a general purpose, "light industrial level," AC/DC, low profile (1U), single output, enclosed type, switching power supply with Power Factor Correction (PFC).

Functions include remote ON/OFF control, a constant current limiting circuit, short circuit, overload, over voltage, and over temperature protections. Users can make a (-5% ~ +10%) output voltage adjustment on a small rheostat on the terminal strip. The series meet requirements from UL, CUL, TUV, CCC, CB, and are approved for use in the European household appliance market. PS-RSP-100 is also CCC approved (China Compulsory Certification).

The PS-RSP-100 Series is widely used and applications include general automation and control systems, mechanical and electrical equipment, instrumentation, household appliances or systems that require an economical but reasonably efficient 100 Watt supply with a 1U low profile.

Pricing:	1+	\$ 99.00
	10+	92.50
	25+	87.00

toll-free 1-866-665-5434

(603) 888-2467 power

power@electracool.com

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RSP 100-12

100 Watt, 12 Volt, 1U Low Profile, Single Output, Power Supply with PFC

Specifications

OUTPUT

DC VOLTAGE 12 V RATED CURRENT 8.5 A CURRENT RANGE 0~8.5A 102W RATED POWER RIPPLE & NOISE (max.) Note.2 100mVp-p VOLTAGE ADJ. RANGE 11.4 ~ 13.2V ±1.0% VOLTAGE TOLERANCE Note.3 LINE REGULATION ±0.5% LOAD REGULATION ±0.5% SETUP, RISE TIME 600ms, 30ms at full load HOLD UP TIME (Typ.) 16ms at full load

INPUT

VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC
FREQUENCY RANGE	47 ~ 63Hz
POWER FACTOR (Typ.)	PF>0.93/230VAC PF>0.98/115VAC at full load
EFFICIENCY (Typ.)	86%
AC CURRENT (Typ.)	1.1A/115VAC 0.55A/230VAC
INRUSH CURRENT (Typ.)	COLD START 30A//230VAC
LEAKAGE CURRENT	<2mA / 240VAC

PROTECTION

OVERLOAD

OVER VOLTAGE OVER TEMPERATURE

ENVIROMENT

WORKING TEMP. $-30^{\circ}C \sim +70^{\circ}C$ (Refer to the "Derating Curve" on last page) WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY -40°C ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.05%/°C (0 ~ 50 °C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes

recovers automatically after fault removed

SAFETY & EMC Note.4

EMC EMISSION EMC IMMUNITY

SAFETY STANDARDS UL60950-1, TUV EN60950-1, EN61558-1, EN61558-2-16, CCC GB4943 approved WITHSTAND VOLTAGE I/P-O/P: 3.75KVAC I/P-FG: 2KVAC O/P-FG: 0.5KVAC I/P-0/P, I/P-FG, O/P-FG:100M Ohms /500VDC / 25°C / 70% RH ISOLATION RESISTANCE Compliance to EN55022 (CISPR22) Class B, EN61000-3-2, 3, GB9254 class B Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A

105 ~ 135% rated output power. Protection type: Constant current limiting,

13.2 ~ 16.2V Protection type: Shut down o/p voltage, re-power on to recover

Shut down o/p voltage, recovers automatically after temperature drops

OTHER

REMOTE CONTROL FUNCTION:	CN1: <0~0.8 VDC Power ON, 4 ~10VDC Power OFF
MTBF	288K hrs min. MIL-HDBK-217F (25 °C)
DIMENSIONS	179*99*30mm (L*W*H)
PACKING	0.52Kg; 24pcs/14.5Kg/0.84CUFT

NOTES: 1. All parameters NOT specifically mentioned are measured at 230VAC input, rated load and ambient temperature of 25°C. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation.

4. The power supply is considered a component which will be installed into a final piece of equipment. The final equipment must be re-confirmed as still meeting EMC directives. For guidance on how to perform these EMC tests, please Google "EMI testing of component power supplies."

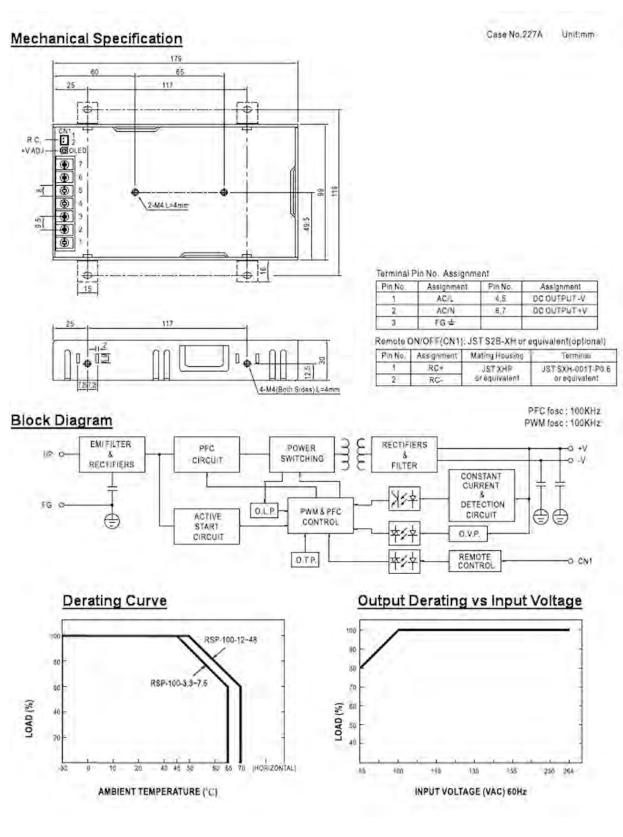
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