## **RPS-200 Series**

### 200W Single Output Green Medical Type





#### **Features**

- 4" x 2" miniature size Universal AC input / Full range Built-in active PFC function
- Medical safety approved (2 x MOPP between primary to secondary)
- Suitable for BF application with appropriate system consideration Low Leakage current <190µA
- EMI Class B for both Class I (with FG) and Class II (without FG) configuration
- No load power consumption <0.5W High Efficiency up to 94%
- Protections: Short circuit / Overload / Over voltage / Over Temperature Cooling by free air convection for 140W and 200W with 10CFM forced air Built-in 12V/0.5A fan supply

- LED indicator for power on
- · 3 years warranty













#### Specification

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	Voltage		80 ~ 264VAC	113 ~ 370VDC					
	Frequency		47 ~ 63 Hz						
	Power Factor		PF >0.94/230VA	C PF>0.98/115 VAC					
INPUT	Efficiency		93%	93%	94%	94%	94%		
	AC Current (Typ.)		2A/115VAC	1A/230VAC					
	Inrush Current (Typ.)		Cold start 30A/115VAC 60A/230VAC						
	Leakage Current (max)		Earth leakage current <190μA/264VAC, Touch current <100μA/264VAC						
	Model Number		RPS-200-12	RPS-200-15	RPS-200-24	RPS-200-27	RPS-200-48		
OUTPUT	DC Voltage		12V	15V	24V	27V	48V		
	Current	10CFM	16.7A	13.4A	8.4A	7.5A	4.2A		
		Convection	11.7A	9.4A	5.9A	5.3A	3A		
	Rated Power	10CFM	200.4W	201W	201.6W	202.5W	201.6W		
		Convection	140.4W	141W	141.6W	143.1W	144W		
	R&N		100mVp-p	100mVp-p	150mVp-p	150mVp-p	200mVp-p		
	Voltage Adj. Range		11.4 ~ 12.6V	14.3 ~ 15.8V	22.8 ~ 25.2V	25.6 ~ 28.4V	45.6 ~ 50.4V		
	Voltage Tolerance		±2.0%	±2.0%	±1.0%	±1.0%	±1.0%		
	Line Regulation		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	Load Regulation		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	Setup, Rise Time		700ms, 30ms/230VAC 700ms, 30ms/115VAC at full load						
	Hold Up Time		12ms/230VAC 12ms/115VAC at full load						
PROTECTION	Overload		110 ~ 140% rated output power						
			Protection type:	hiccup mode, recov	ers automatically	after fault condition	on is removed		
	Over Voltage		13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	29.7 ~ 35V	52.8 ~ 62.4V		
			Protection type: Shutdown o/p voltage, re-power on to recover						
Over Temperature		ture	Protection type: Shut down o/p voltage, re-power on to recover						
FUNCTION	Fan Supply		12V@0.5A for driving a fan; tolerance +15% ~ -15%						
	Working Temperature		-30 ~ +70°C (Refer to Derating Curve)						
ENVIRONMENT	Working Humidity		20 ~ 90% RH non-condensing						
	Storage Temperature		-40 ~ +85°C, 10 ~ 95% RH						
	Temp. Coefficient		±0.03%/°C (0-50°C)						
	Vibration		10 ~ 500Hz, 2G 10 min./1cycle, period for 60min. each along X, Y, Z axes						
SAFETY & EMC	Safety Standards		ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved						
	Isolation Level		Primary-Secondary: 2xMOPP, Primary-Earth: 1xMOPP, Secondary-Earth: 1 MOPP						
	Withstand Voltage		I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
	Isolation Resistance		I/P-0/P I/P-FG:100M 0hms / 500VDC / 25°C / 70% RH						
	EMC Emission		Compliance to EN55011, (CISPR11) class B, EN61000-3-2,-3						
	EMC Immunity		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2 medical level, criteria A						
OTHERS	MTBF		500.2K hrs min. MIL-HDBK-217 (25°C)						
	Packing		PCB: 0.19kg; 72pcs/14.7Kg/0.82CUFT; Enclosed type: 0.3Kg; 60pcs/19Kg/1.12CUFT						

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load, 25°C of ambient temperature.
  2. Ripple & noise are measured at 20MHz by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
  3. Tolerance: includes set up tolerance, line regulation, load regulation.
  4. Derating may be needed under low input voltages. Please check the derating curve for more details.
  5. Touch current was measured from primary input to DC output.
  6. The power supply is considered as a component which will be installed into final equipment. The dfinal equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to 'EMI testing of component power supplies'.

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DC COM

+12V

JST PHR-2

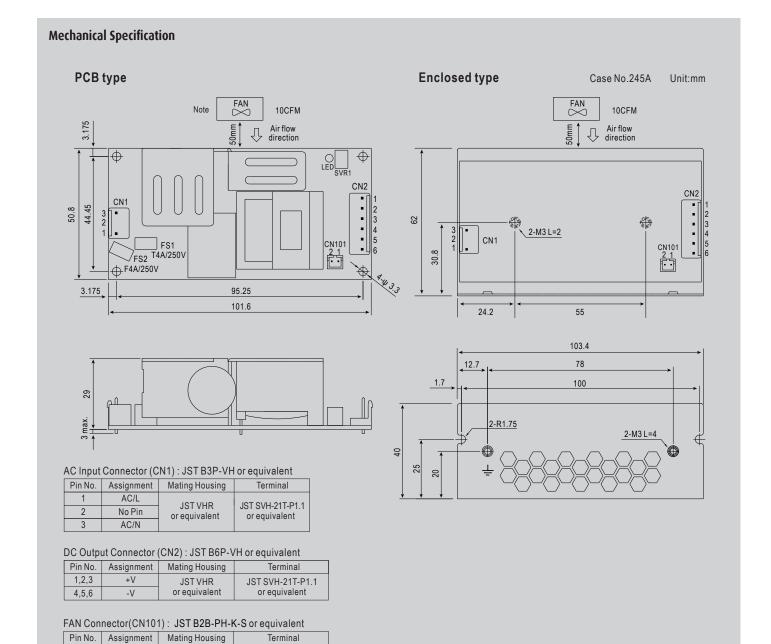
or equivalent

JST SPH-002T-P0.5S

or equivalent

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- Note: 1. The FAN supply is designed to serve as the source of the additive external fan for the cooling of the power supply, enabling the full load delivery and assuring the best life span of the product. Please do not use this FAN supply to drive other devices.
  - 2. The PCB type(Blank type)model delivers EMI Class B for both conducted emission and radiated emission for the power supply, when configured into either Class I (with FG) or Class II (without FG) system.
  - 3.The Enclosed type(-C type) model is not suitable for the configuration within a Class II (without FG) system but is suggested to used within a Class I (with FG) system.

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