























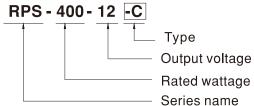
Features

- 5"×3" compact size
- Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- Suitable for BF application with appropriate system configuration
- · 250W convection,400W force air
- EMI Class B for Class I & Class A for Class II configuration
- No load power consumption<0.5W by PS-ON control
- 5Vdc standby output, 12Vdc fan supply, Power Good, Power Fail and remote sense
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Operating altitude up to 4000 meters
- 3 years warranty

Description

RPS-400 is a 400W highly reliable green PCB type medical power supply with a high power density on the 5" by 3" footprint. It accepts $80\sim264$ VAC input and offers various output voltages between 12V and 48V. The working efficiency is up to 94% and the extremely low no load power consumption is down below 0.5W. RPS-400 is able to be used for both Class I (with FG) or Class II (no FG) system design. The extremely low leakage current is less than $160~\mu$ A. In addition, it conforms to international medical regulations (2*MOPP) and EMC EN55011, perfectly fitting all kinds of BF rated "patient contact" medical system equipment. RPS-400 series also offers the enclosed style models(-C/TF/SF)

Model Encoding



Type	Description	Note
Blank	PCB Type	In stock
С	Enclosed casing Type	In stock
TF	Enclosed Type with fan on the top	In stock
SF	Enclosed Type with fan on the side	In stock

Applications

- Oral irrigator
- · Hemodialysis machine
- Medical computer monitors
- · Sleep apnea devices
- · Pump machine
- · Electric bed



SPECIFICATION

MODEL		RPS-400-12	RPS-400-15	RPS-400-18	RPS-400-24	RPS-400-27	RPS-400-36	RPS-400-48		
DC VOLTAGE		12V	15V	18V	24V	27V	36V	48V		
OUTPUT	CURRENT	25CFM	33.3A	26.7A	22.3A	16.7A	14.9A	11.2A	8.4A	
		Convection	20.8A	16.7A	13.9A	10.5A	9.3A	7A	5.3A	
	RATED POWER	25CFM	399.6W	400.5W	401.4W	400.8W	402.3W	403.2W	403.2W	
		Convection	249.6W	250.5W	250.2W	252W	251.1W	252W	254.4W	
	RIPPLE & NOISE (max.) Note.2		120mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE(main output)		11.4~12.6V	14.3~15.8V	17.1~18.9V	22.8~25.2V	25.6 ~ 28.4V	34.2 ~37.8V	45.6 ~50.4V	
	VOLTAGE TOLERANCE Note.3		±3.0%	±3.0%	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME		1000ms, 30ms/230VAC 1500ms, 30ms/115VAC at full load							
	HOLD UP TIME (Typ.)		16ms/230VAC 16ms/115VAC at full load							
INPUT	VOLTAGE RANGE Note.4		80 ~ 264VAC 113 ~ 370VDC							
	FREQUENCY RANGE		47 ~ 63Hz							
	POWER FACTOR		PF>0.94/230VAC PF>0.98/115VAC at full load							
	EFFICIENCY (Typ.)		91.5%	92%	93%	93%	93.5%	94%	94%	
	AC CURRENT (Typ.)		4.2A/115VAC 2.1A/230VAC							
	INRUSH CUR	RENT (Typ.)	COLD START 35A/115VAC 70A/230VAC							
	LEAKAGE CURRENT (max.) Note.5		Earth leakage current < 200 μ A/264VAC 50Hz , Touch current < 70 μ A/264VAC							
PROTECTION	OVERLOAD		105 ~ 135% rated output power							
			Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE		13.2 ~ 15.6V	16.5 ~ 19.5V	19.8 ~23.4V	26.4 ~ 31.2V	29.7 ~ 35.1V	39.6 ~ 46.8V	52.8 ~ 62.4V	
			Protection type : Shut down o/p voltage, re-power on to recover							
	OVER TEMPERATURE		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down							
FUNCTION	5V STANDBY		ı	A without fan, 1, %, ripple : 120m		М;				
	FAN SUPPLY		12V@0.5A for driving fan ; Tolerance $\pm 10\%$							
	PS-ON INPUT	SIGNAL	Power on: PS-ON = "Hi" or " > 2 ~ 5V" ; Power off: PS-ON = "Low" or " < 0 ~ 0.5V"							
	POWER GOOD	/ POWER FAIL	500ms>PG>10ms; The TTL signal goes high with 10ms to 500ms delay after power set up; The TTL signal goes low at least 1ms before Vo below 90% of rated value							
	WORKING TE	MP.	-30 ~ +70°C (Refer to "Derating Curve")							
	WORKING HI	JMIDITY	20 ~ 90% RH non-condensing							
ENVIRONMENT	STORAGE TE	MP., HUMIDITY	' -40 ~ +85°C , 10 ~ 95% RH non-condensing							
	TEMP. COEFI	FICIENT	±0.03%/°C (0~50°C)							
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
	OPERATING ALTITUDE Note.6 4000 meters									