























Features

- 5"×3" compact size
- · 320W convection,500W force air
- 550W peak power (3sec.)
- · Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- EMI for both Class I & Class II configuration
- -30~+70°C wide range operating temperature
- No load power consumption<0.5W by PS_ON control
- · High efficiency up to 94%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 5Vdc standby output, 12Vdc fan supply, Power Good, Power Fail and remote sense
- Operating altitude up to 4000 meters (Note.5)
- · LED indicator for power on
- · 3 years warranty







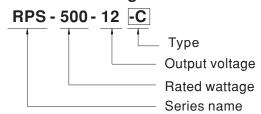
Applications

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

Description

RPS-500 is a 500W highly reliable green PCB type medical power supply with a high power density on the 5" by 3" footprint. It accepts 80~264VAC 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-500 (blank type only) is able to be used for both Class I (with FG) and Class II (no FG) system design. The extremely low leakage current is less than 220 µA. In addition, it conforms to international medical regulations (2*MOPP) and EMC EN55011, perfectlyfitting all kinds of BF rated "patient contact" medical system equipment. RPS-500 series also offers the enclosed style models(-C / TF /SF)

Model Encoding



Туре	Description	Note		
Blank	PCB Type	In stock		
-C	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		



500W 5"×3" Reliable Green Medical Power Supply **RPS-500** series

SPECIFICATION

MODEL			RPS-500-12	RPS-500-15	RPS-500-18	RPS-500-24	RPS-500-27	RPS-500-36	RPS-500-48	
	DC VOLTAGE			12V	15V	18V	24V	27V	36V	48V
			25CFM	41.6A	33.3A	27.8A	20.8A	18.5A	13.9A	10.4A
	RATED CURRENT Note.7	Blank	Convection	26.7A	21.3A	17.8A	13.4A	11.9A	8.9A	6.7A
			25CFM	41.6A	33.3A	27.8A	20.8A	18.5A	13.9A	10.4A
		- C	Convection	25.8A	20.7A	17.2A	12.9A	11.5A	8.6A	6.5A
		-TF/SF	Built-in fan	41.6A	33.3A	27.8A	20.8A	18.5A	13.9A	10.4A
			25CFM	499.2W	499.5W	500.4W	499.2W	499.5W	500.4W	499.2W
		Blank	Convection	320.4W	319.5W	320.4W	321.6W	321.3W	320.4W	321.6W
	POWER	- C - TF/SF	25CFM	499.2W	499.5W	500.4W	499.2W	499.5W	500.4W	499.2W
	Note.7		Convection	309.6W	310.5W	309.6W	309.6W	310.5W	309.6W	312W
			Built-in fan	499.2W	499.5W	500.4W	499.2W	499.5W	500.4W	499.2W
OUTDUT	PEAK POWER(3sec.)		550W							
	RIPPLE & NOISE (max.) Note.2		200mVp-p	200mVp-p	200mVp-p	200mVp-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%	±2.0%	±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, RIS	SETUP, RISE TIME		1000ms, 30ms	/230VAC 1	500ms, 30ms/11	15VAC at full load	d		
	HOLD UP TIME (Typ.)		10ms/230VAC 10ms/115VAC at full load							
	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%	92%	92.5%	93%	93.5%	94%	94%	
	AC CURRENT (Typ.)		5.8A/115VAC	2.9A/230VA	/C					
	INRUSH CURRENT (Typ.)		COLD START 40A/115VAC 80A/230VAC							
	LEAKAGE CURRENT (max.) Note.5									
		105 ~ 135% rated output power								
	OVERLOAI	OVERLOAD		Protection type: Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION	PROTECTION									
111012011011				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
	OVER VOL	TAGE				19.8 ~23.4V voltage, re-pow			39.6 ~ 46.8V	52.8 ~ 62.4V
	OVER VOL		URE	Protection type	: Shut down o/p		er on to recover			52.8 ~ 62.4V
		IPERAT	URE	Protection type Protection type 5Vsb:5V@0.4	: Shut down o/p	o voltage, re-pow o voltage, recove 1A with fan 25C	er on to recover			52.8 ~ 62.4V
	OVER TEM	IPERAT BY	URE	Protection type Protection type 5Vsb:5V@0.4	: Shut down o/p : Shut down o/p 6A without fan, %, ripple : 120r driving fan;	o voltage, re-pow o voltage, recove 1A with fan 25C	er on to recover			52.8 ~ 62.4V
FUNCTION	OVER TEM	IPERAT BY UPPLY		Protection type Protection type 5Vsb:5V@0. Tolerance ±2 12V@0.5A for Tolerance ±1 Power ON: PS	: Shut down o/p : Shut down o/p 6A without fan, %, ripple : 120r driving fan;	o voltage, re-pow o voltage, recove 1A with fan 25C nVp-p(max.) > 2 ~ 5V";	er on to recover			52.8 ~ 62.4V
FUNCTION	OVER TEM 5V STANDE 12V FAN SU	BY UPPLY UT SIGI	NAL	Protection types Protection types 5Vsb:5V@0. Tolerance ±2 12V@0.5A for Tolerance ±1 Power ON: PS Power OFF: Ps 500ms>PG>1	s: Shut down o/p :: Shut down o/p 6A without fan, %, ripple: 120r driving fan; 0% -ON = "Hi" or "? S-ON = "Low" o	o voltage, re-pow o voltage, recove 1A with fan 25C nVp-p(max.) > 2 ~ 5V";	rer on to recover automatically FM;	after temperatu	re goes down	52.8 ~ 62.4V
FUNCTION	OVER TEM 5V STANDE 12V FAN SU PS-ON INP	JPPLY UT SIGI	NAL	Protection type Protection type 5Vsb:5V@0. Tolerance ±2 12V@0.5A for Tolerance ±1 Power ON: PS Power OFF: PS 500ms>PG>1 The TTL signal	s: Shut down o/p :: Shut down o/p 6A without fan, %, ripple: 120r driving fan; 0% -ON = "Hi" or "? S-ON = "Low" o	o voltage, re-power voltage, recover the voltage that voltage, recover the voltage that voltage, recover the voltage that voltage t	rer on to recover automatically FM;	after temperatu	re goes down	52.8 ~ 62.4V
FUNCTION	OVER TEM 5V STANDE 12V FAN SU PS-ON INP POWER GOO	IPERAT BY JPPLY UT SIGI OD / POV TEMP.	NAL /ER FAIL	Protection types Protection types 5Vsb:5V@0. Tolerance ±2 12V@0.5A for Tolerance ±1 Power ON: PS Power OFF: Po	: Shut down o/p : Shut down o/p 6A without fan, %, ripple : 120r driving fan; 0% -ON = "Hi" or " ? S-ON = "Low" o 0ms; The TTL s	o voltage, re-power voltage, recover the voltage that voltage, recover the voltage that voltage, recover the voltage that voltage t	rer on to recover automatically FM;	after temperatu	re goes down	52.8 ~ 62.4V
FUNCTION	OVER TEM 5V STANDE 12V FAN SU PS-ON INP POWER GOO WORKING	JPPLY UT SIGI DD / POV TEMP. HUMIDI	NAL /ER FAIL	Protection types Protection types 5Vsb:5V@0. Tolerance ±2 12V@0.5A for Tolerance ±1 Power ON: PS Power OFF: Po	s: Shut down o/p :: Shut down o/p 6A without fan, %, ripple: 120r driving fan; 0% -ON = "Hi" or " 2 S-ON = "Low" o 0ms; The TTL s Il goes low at le	o voltage, re-power voltage, recover the voltage that voltage, recover the voltage that voltage, recover the voltage that voltage t	rer on to recover automatically FM;	after temperatu	re goes down	52.8 ~ 62.4V
FUNCTION	OVER TEM 5V STANDE 12V FAN SU PS-ON INP POWER GOO WORKING WORKING	JPPLY UT SIGI DD / POV TEMP. HUMIDI EMP.	NAL /ER FAIL TY	Protection type Protection type 5Vsb:5V@0. Tolerance ±2 12V@0.5A for Tolerance ±1 Power ON: PS Power OFF: Ps 500ms>PG>1 The TTL signal -30 ~ +70°C (F 20 ~ 90% RH r	: Shut down o/p : Shut down o/p 6A without fan, %, ripple : 120r driving fan ; 0% -ON = "Hi" or " ? S-ON = "Low" o 0ms ; The TTL s Il goes low at le	o voltage, re-power voltage, recover the voltage that voltage, recover the voltage that voltage, recover the voltage that voltage t	rer on to recover automatically FM;	after temperatu	re goes down	52.8 ~ 62.4V
FUNCTION	OVER TEM 5V STANDE 12V FAN SU PS-ON INP POWER GOO WORKING WORKING STORAGE T	JPPLY UT SIGI DD / POV TEMP. HUMIDI EMP.	NAL /ER FAIL TY	Protection types Protection types 5Vsb:5V@0.1 Tolerance ±2 12V@0.5A for Tolerance ±1 Power ON: PS Power OFF: PS 500ms>PG>1 The TTL signal -30 ~ +70°C (F 20 ~ 90% RH r -40 ~ +85°C ±0.03%/°C (C	Shut down o/p Shut down o/p Shut down o/p A without fan, N, ripple: 120r driving fan; O% -ON = "Hi" or ": S-ON = "Low" o Oms; The TTL s Il goes low at le Refer to "Deratin Ion-condensing O ~ 50°C)	o voltage, re-power voltage, recover the voltage that voltage, recover the voltage that voltage, recover the voltage that voltage t	ver on to recover ers automatically FM ; with 10ms to 50 Vo below 90% o	after temperatu	re goes down	52.8 ~ 62.4V