

50Watts Single Output IT-EMC-50S Series



FEATURES:

- No Load power consumption<0.5W</p>
- Universal AC input range (88~264Vac)
- Miniature size, high power density, high efficiency, long life and high reliability
- Withstand 300VA surge input for 5 sec.
- Output protections: OLP/OVP/SCP
- Wide operating ambient temp (-25°C~70°C)
- All using 105°C long life electrolytic capacitors.
- > 100% full load burn-in test
- > Easy assembling from top side
- PCB soldering side with conformal coating
- Suitable for critical applications
- 3 years warranty



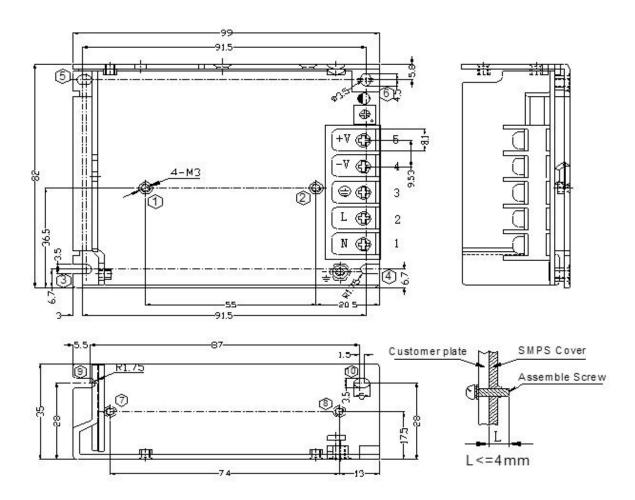


SPECIFICATION

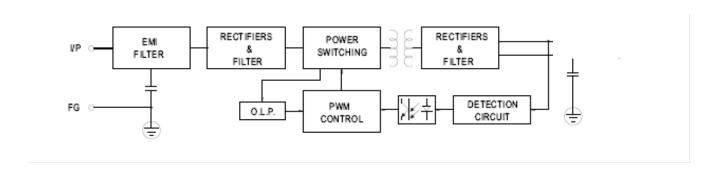
MODEL		IT-EMC-50S	-5	-12	-15	-24	-48
OUTPUT	DC Output		5V	12V	15V	24V	48V
	Rated Current		8A	4.2A	3.4A	2.2A	1.12A
	Current Range		0~8A	0~4.2A	0~3.4A	0~2.2A	0~1.12A
	Ripple and Noise	0~70°C	<80mV	<120mV	<120mV	<200mV	<200 mV
	Note 2	-25-0°C	<80mV	<200mV	<200mV	<300mV	<500mV
	Voltage ADJ. Range		4.75~5.5	11.4~13.2V	14.25~15V	22.8~26.4V	45.6~52.8V
	Voltage Accuracy		±3.0%				
	Line Regulation		±0.5%				
	Load Regulation		±1.0%				
	Set-up Time		<1.5S (230Vac input, Full load)				
	Hold up Time		>50mS(230Vac input, Full load)				
	Temperature Coefficient		±0.03%/°C				
	Overshoot and Undershoot		<5.0%				
INPUT	Voltage Range		88Vac~264Vac, 127~370Vdc				
	Frequency Range		47Hz~63Hz				
	Efficiency 115V	acinput	79%	82.5%	83.5%	85%	86.5%
	(Typical) 230V	acinput/	80%	84.5%	85.5%	87%	88.5%
	AC Current (max.)		<1.3A				
	Inrush Current (Typical)		<45A@230Vac Cold start				
	Leakage Current		Input—output:<0.25mA Input—PG:<3.5mA (input 264Vac, 63Hz)				
PROTECTION	Over Load		8.4~12A	4.41~6.3A	3.57~5.1A	2.31~3.3A	1.155~1.65A
			Protection type: 5V is hiccup mode, rest are constant power, auto recovery				
	Over Voltage		5.75~7.5	13.8~18V	17.25~22.5V	27.6~36V	55.2~72V
			Protection type: constant voltage, auto recovery				
	Short Circuit		Long-term mode, auto recovery				
ENVIRONMENT	Operating amb. Temp. & Hum.		-25°C~70°C; 20%~90%RH No condensing (refer to the derating curve)				
	Storage Temp. & Hum.		-40°C~85°C; 10%~95%RH No condensing				
SAFETY &EMC Note 3	Safety Standards		UL60950-1 2 nd Ed; IEC 60950-1:2005(2 nd Ed) ;EN60950-1:2006				
	Withstand Voltage		Primary-Secondary: 3.0KVac/10mA .Primary-PG:1.5KVac/10m				
			Secondary	Secondary-PG: 0.5KVDC/10mA.			
	Isolation Resistance		100M ohms				
	EMC Emission		Compliance to EN55022 Class B / FCC Part15 Class B				
	EMC Immunity		Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level				
OTHERS	MTBF (MIL-HDBK-217F)		More than 200,000Hrs (25°C, Full load)				
	Dimension (L*W*H)		99×82×35mm				
	Packing		40PCS/CTN, 12.8KGS, 0.043CBM				
	Cooling method		Cooling by free air convection				
NOTE	 All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambie temperature. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF paracapacitor. 						



■ Mechanical Specification Unit:mm

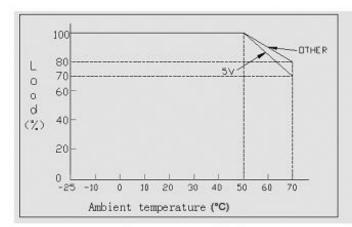


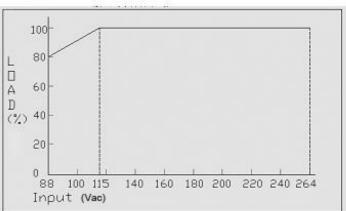
■ Block Diagram





Derating Curve





All products, product specifications and data are subject to change without notice.