

# 35Watts Single Output

## IT-EMC-35S Series



### FEATURES:

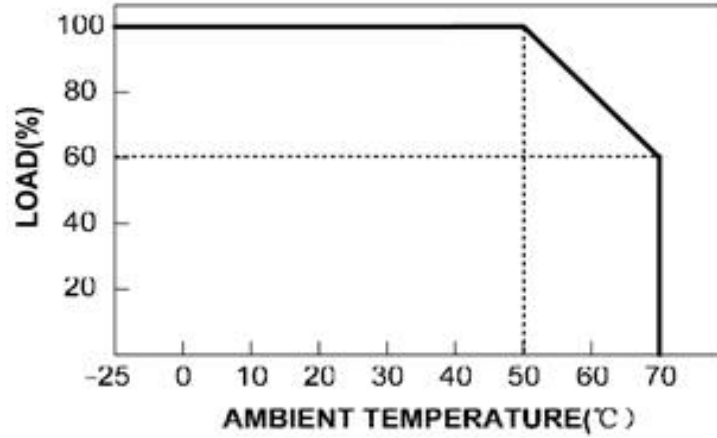
- No Load power consumption < 0.5W
- Universal AC input range
- Miniature size, high power density, high efficiency, long life and high reliability
- Withstand 300VA surge input for 5 sec.
- Output protections: OLP/OPP/SCP
- Wide operating ambient temp (-20°C~70°C)
- Operating altitude up to 5000M
- 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-35S-5	IT-EMC-35S-12	IT-EMC-35S-15	IT-EMC-35S-24	IT-EMC-35S-48	
OUTPUT	DC Output	5V	12V	15V	24V	48V	
	Rated Current	6A	3A	2.4A	1.5A	0.76A	
	Current Range	0~6A	0~3A	0~2.4A	0~1.5A	0~0.76A	
	Ripple and Noise Note 2	0~70°C	<50mV	<80mV	<120mV	<120mV	<180 mV
		-25~0°C	<80mV	<180mV	<200mV	<200mV	<240mV
	Voltage ADJ. Range	-5%~+10% of rated output voltage					
	Voltage Accuracy	±3.0%	±3.0%	±3.0%	±3.0%	±3.0%	
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	Set-up Time	< 1S (230Vac input, Full load);					
	Hold up Time	> 20mS (230Vac input, Full load); > 10mS (120Vac input, Full load)					
	Temperature Coefficient	±0.03%/°C					
Overshoot and Undershoot	<5.0%						
INPUT	Voltage Range	90Vac~264Vac, 127~370Vdc					
	Frequency Range	47Hz~63Hz					
	Efficiency ( Typical)	115Vac	79%	83%	85%	86%	87%
		230Vac input	80%	84%	86%	87%	88%
	AC Current (max.)	<1A(max)					
	Inrush Current (Typical)	<50A@230Vac Cold start					
Leakage Current	Input—output:<3.5mA Input—PG:<0.25mA						
PROTECTION	Over Load	105%~150% of rated output current, constant power, auto recovery					
	Over Voltage	105%~150% of rated output voltage, Constant Voltage					
	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 <sup>nd</sup> Ed; IEC 60950-1:2005(2 <sup>nd</sup> Ed); EN60950-1:2006					
	Withstand Voltage	Primary-Secondary: 3.0KVac; ≤10mA. Primary-PG: 1.5KVac; ≤10mA. Secondary-PG: 0.5KVDC; ≤10mA.					
	Isolation Resistance	≥100M ohms					
	EMC Emission	Compliance to EN55022, EN55024 ClassB					
	Harmonic Current	Compliance to EN61000-3-2,-3					
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, EN61000-6-2 heavy industry level					
OTHERS	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25°C, Full load)					
	Dimension (L*W*H)	101.6x63.5x33mm					
	Packing	60PCS/CTN, 15.18KGS, 0.06CBM					
	Cooling method	Cooling by free air convection					
NOTE	1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 10uF parallel capacitor.						



## ■ Derating Curve



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