



CE  
ISO9001



Working  
Temperature



Leakage  
Current

# SMPS SE-4.2A-12V



## TECHNICAL DETAILS

DC Voltage	12 V
Rated Current	4.2 A
Current Range	0 ~ 4.2 A
Rated Power	50.4W
Ripple & Noise (max). Note.2	100mVp-p
Voltage Adj. Range	10.8 ~ 13.2 V
Voltage Tolerance Note.3	± 1.0%
Line Regulation	± 0.5%
Load Regulation	± 0.5%
Setup, Rise, Time	200ms, 100ms, 20ms at full load
Voltage range	85 ~ 132VAC / 170 ~ 264VAC selected by switch 240 370VDC
Frequency Range	47 ~ 63Hz
Efficiency (Typ.)	78%
AC Current	1.3A/115VAC 0.65A/230VAC
Inrush Current (max.)	COLD START 18A/115VAC 36A/230VAC
Leakage Current	<1mA / 240VAC
Overload	105 150% rated output power
Working Temp.	- 10 ~ +60°C (Refer to output load derating curve)
Working Humidity	20 ~ 90% RH non-condensing
Storage Temp., Humidity	-20 ~ +85°C, 10 ~ 95% RH
Temp. Coefficient	±0.03 % /°C (0 - 500C)
Vibration	10 ~ 500Hz, 2G 10min./1 cycle, 60min. each along X, Y, Z axes
Safety Standards	Design refer to UL1012
With Stand voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100 M Ohms/500VDC
EMI Conduction & Radiation	Design refer to FCC Part 15 J Conduction Class B



Mtbf	408.3K hrs min. MIL-HDBK-217F (25°C)
Dimension	159*97*38 mm (L*W*H)
Packing	0.444kg; 30pcs/14.92Kg/0.0250CUFT

## Features

- AC input range selected by switch
- Protections: Short circuit/Over load
- Cooling by free air convection
- 100% full load burn-in
- Fixed switching frequency at 37KHz
- Lost cost
- High reliability

## Notes

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.