S500

SWITCH MODE POWER SUPPLY

Features

- AC input range selectable by switch
- PROTECTION : Shortcircuit, Overvoltage & Overload
- Forced air cooling by build-in DC fan
- 100% full load burn-in test
- PMW controls and regulated
- Build-in cooling Fan ON-OFF controls
- CE Marked on all models
- 1 Year Warranty

INPUT SPECIFICATION

Voltage Range	100-120 VAC 200-240 VAC
Frequency Range	50 - 60Hz
Efficiency	S-500-12 : 84% S-500-24 : 86% S-500-48 : 88%
AC Current (typ.)	7A / 115VAC ; 3.5A / 230VAC
Inrush Current (typ.)	18A / 115VAC ; 36A / 230VAC (for cold start at 25°C)
Leakage Current	<3.5mA / 240VAC

OUTPUT SPECIFICATION

Rated Current	S-500-12 : 41A S-500-24 : 20A S-500-48 : 10A
Rated Power	500Watts
Voltage ADJ. Range	±10% (with V.ADJ)
Voltage Tolerance	±1%
Ripple & Noise(max)	S-500-12 : 240mVp-p S-500-24 : 240mVp-p S-500-48 : 300mVp-p
Setup Time	800ms / 115VAC; 300ms / 230VAC at full load
Rise Time	20ms / 115VAC; 50ms / 230VAC at full load
Hold Time(Typ.)	36ms / 115VAC; 80ms / 230VAC at full load

PROTECTION

Overload	105% to 135% rated load current Protection Type : Fold back current limiting, recovers automatically after fault condition is removed
Overvoltage	Protection Type : Hiccup mode, recover automatically after fault condition is removed
Fan Control,O.T.P	RTH1 or RTH250°C FAN ON, 45°C FAN, 70°C output shut down
Temp. Coefficient	±0.03%/°C(0~50°C)

ENVIRONMENT

Temperature	Working : -20°C to +60°C (derating is required according to temperature) Storage : -40°C to +85°C (with no icing or condensation)
Humidity	Working : 20% to 90% RH Storage : 10% to 95% RH
Vibration Resistance	10 to 500Hz, 10min/1cycle (2G) for 60min each in X, Y, Z directions

STANDARDS

Safety Standards	Meet the UL1950, TUV EN60950-1
EMC Standards	Meet the EN55022 CLASS B Equipment

SECURITY

Isolation Resistance	I/P and O/P ; I/P and FG ; O/P and FG : 100MΩ at 500VDC, 25°C, 70% RH
Dielectric Strength	Between I/P and O/P : 1.5kVAC for 1 min Between I/P and F.G : 1.5kVAC for 1 min Between O/P and F.G : 0.5kVAC for 1 min

OTHER SPECIFICATION

Weight	1.35kg
Dimension (L*W*H)	238*124*65 mm

ORDER CODE

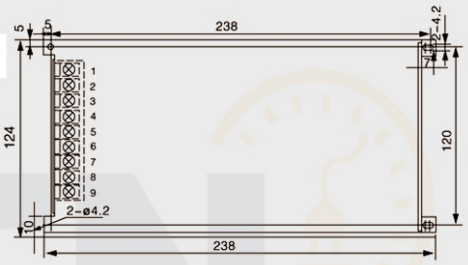
MODEL	VOLTAGE	CURRENT
S-500-12	12VDC	41A
S-500-24	24VDC	20A
S-500-48	48VDC	10A

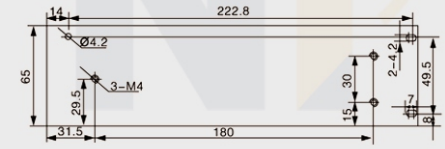
DIMENSIONS

S-500

Terminal Pin No. Assignment

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG⏚
4,5,6	DC OUTPUT -V
7,8,9	DC OUTPUT +V



Dimension

PARAMETER	VALUE
Length	238mm
Breadth	124mm
Height	65mm
Weight	1.35kg