



Features

- 230VAC / 110VAC Input
- PROTECTION : Shortcircuit, Overvoltage & Overload
- Compact, Low Cost & High Reliability
- 100% Full Load Burn-in test
- LED Indicator for Power on
- Cooling by free air convection
- CE Marked on all models
- 1 Year Warranty

INPUT SPECIFICATION

Voltage Range	85 - 264VAC 120 - 370VDC
Frequency Range	47 - 63Hz
Efficiency	MS-60-5 : 80% MS-60-12 : 82% MS-60-24 : 84%
AC Current (typ.)	0.8A / 230VAC
Inrush Current (typ.)	30A / 230VAC (for cold start at 25°C)
Leakage Current	<1mA / 240VAC

OUTPUT SPECIFICATION

Rated Current	MS-60-5 : 12A MS-60-12 : 5.0A MS-60-24 : 2.5A
Rated Power	60Watts
Voltage ADJ. Range	±10% (with V.ADJ)
Voltage Tolerance	±1%
Ripple & Noise(max)	MS-60-5 : 80mVp-p MS-60-12 : 120mVp-p MS-60-24 : 200mVp-p
Setup Time	200ms / 230VAC at full load
Rise Time	100ms / 230VAC at full load
Hold Time(Typ.)	20ms / 230VAC at full load

PROTECTION

Overload	100% to 110% rated load current Protection Type : Hiccup mode, recovers automatically after fault condition is removed
Overvoltage	Protection Type : Shutdown output voltage, re-power on to recover

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 UL1012 requirement
EMC Standards	Meet the EN55022 CLASS A 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

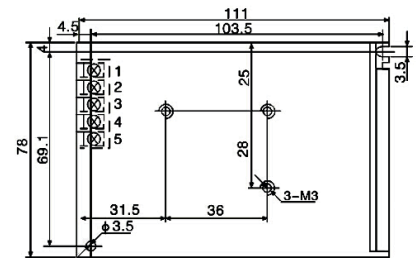
OTHER SPECIFICATION

Weight	0.25kg
Dimension (L*W*H)	111*78*36 mm
Packing	80pcs/20kg

ORDER CODE

MODEL	VOLTAGE	CURRENT
MS-60-5	5VDC	12.0A
MS-60-12	12VDC	5.0A
MS-60-24	24VDC	2.5A

DIMENSIONS



- Terminal Pin No. Assignment
- Pin 1, 2 : AC input
- Pin 3 : GND ⊕
- Pin 4 : DC output-V
- Pin 5 : DC output+V

