



### Features

- Compact, Low Cost & High Reliability
- 100% Full Load Burn-in Test
- PROTECTION : Shortcircuit, Overvoltage & Overload
- CE Marked on all models
- Cooling by free air convection
- 1 Year Warranty

### INPUT SPECIFICATION

Voltage Range	100 - 264VAC
Frequency Range	47 - 63Hz
Efficiency	71%
AC Current (typ.)	0.5A / 115VAC 0.25A / 230VAC
Inrush Current (typ.)	15A / 115VAC 30A / 230VAC (for cold start at 25°C)
Leakage Current	<0.5mA / 240VAC

### OUTPUT SPECIFICATION

Rated Current	2.0A
Rated Power	20Watts
Voltage ADJ. Range	±10% (with V.ADJ.)
Voltage Tolerance	±1.0%
Ripple & Noise(max)	50mVp-p
Setup Time	200ms / 230VAC at full load
Rise Time	100ms / 230VAC at full load
Hold Time(Typ.)	30ms / 240VAC at full load

### PROTECTION

Overload	105% to 135% rated output power Protection Type : constant current limiting, recovers automatically after fault condition is removed
Overvoltage	Protection Type : Shutdown output voltage, re-power on to recover

### ENVIRONMENT

Temperature	Working : -10°C to +60°C (derating is required according to temperature) Storage : -20°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
EMC Standards	Meet the FCC Part 15J 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
Withstand Voltage	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

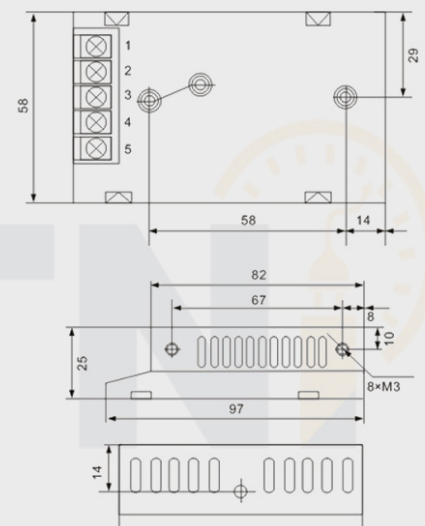
Weight	0.16kg
Dimension (L*W*H)	97*58*25 mm

### ORDER CODE

MODEL	VOLTAGE	CURRENT
MSF-20-12	12VDC	2.0A

### DIMENSIONS

MSF-20



Dimension

PARAMETER	VALUE
Length	97mm
Breadth	58mm
Height	25mm
Weight	0.160kg