

MPF 072 1 A 01

APPLICATION : INDUSTRIAL



INPUT RANGE VOLTAGE : 230VAC
OUTPUT VOLTAGE: 48VDC @ 1.5A
TOTAL MAX POWER: 72W
SIZES: 100 x 100 x 50mm (L x W x H)
STANDARDS: EN 50 155 EN 50121-3-2



INPUT CHARACTERISTICS

Nominal Voltage : 230VAC
 Input Range ; 154 to 275VAC
 Range frequency: 47 to 440Hz
 Protection against input rejections: by Π .filter
 Input transient protection : By Gemov
 Reverse voltage : By fuse
 Input Inrush current : < 10In

OUTPUT CHARACTERISTICS

Output voltage	VOUT
Output voltage	48VDC
Accuracy	$\pm 1\%$
Current	Iout
Nominal current	1.5A
Maximum current	> 1.875A
Short circuit protection	Yes
Regulation	Vout
Line + Load	$\pm 5\%$
Ripple peak to peak	Vout
0-20MHz	< 150mV

Transients response: Following NFC.42801 C
 Long term stability on 8 hours: < 0.3%
 (after $\frac{1}{2}$ hour running)
 Switching frequency: > 40kHz
 Efficiency : $\geq 80\%$
 Output over voltage protection: Yes by transil

PHYSICAL CHARACTERISTICS

Case Size : 100x100x50mm
 Construction: Metallic box
 Fixations: 4 Holes M3

CONNECTORS

Input/Output : Screw connector blocks

RELIABILITY

MTBF : 200 000h at 25°C MG MILHDBK217F

DIELECTRIC STRENGTH

Dielectric strength: 1500VAC (Input to Output)
 1500VAC (Input + Output to GND)

INSULATING RESISTANCE

Insulation: > 100M Ω under 500VDC

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range : -25 to +70°C
 Storage temperature : -40°C to 85°C
 Operating relative humidity : 95% at 40°C
 Temperature rate: < 2%/°C from 50°C to 70°C
 Cooling : free air convection with connector down

STANDARDS

Shocks and vibrations : Conform to EN 50 155
 Salt fog: Conform to EN50155
 EMI filter: EN55011/ EN50121-3-2
 EN 61000- 4-2, ± 8 kV
 EN 61000- 4-3, 20V/m
 EN 61000-4-4, 2kV





MECANICAL DRAWING

