

MQF500 SERIES:



500 Watt / Single Output

5.00 x 3.00 x 1.38" Open-Frame Switcher

Features:

- ITE & Medical Safety Approvals
- Rated for 2xMOPP
- Remote ON/OFF Function
- 240 Watt with Free Air Convection
- 500 Watt with 30 CFM FAN
- Built-in 12V/0.4A Auxiliary Output
- Standby 5V@1A
- High Efficiency up to 92%
- With P.F.C. Function >0.94
- 3-Year Product Warranty

INPUT:

Input Voltage	90~264 VAC (Universal AC Input)
Input Frequency	47-63Hz
Inrush Current	80A @ 230 VAC Cold Start (max)
Input Current	6.3A maximum at 115VAC
Input Protection	Dual Fuse
Hold-Up Time	8ms Minimum
Leakage Current	<100µA (Class I) / 250µA (Class II)
Harmonics	EN61000-3-2 Class A Compliant

GENERAL:

Efficiency	90.5 - 93%
Operating Temperature	-30 to +70°C, derate 2.5% / °C above 50°C
Storage Temperature	-35°C to +85°C
Cooling	30cfm airflow for full load power 240Watts Convection Cooled Operation
Operating Humidity	5-95% RH, Non-Condensing
Vibration	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.
MTBF	>160k Hrs (according to MIL-HBK-217F) at 25°C

OUTPUT:

Minimum Load	3% to maintain specified regulation
Output Adjustment	±4% (minimum)
Line Regulation	±0.5% max
Load Regulation	±1% typ.
Ripple & Noise	±1% typ. pk-pk @ 20MHz
Overload Protection	Auto-Recovery
Over Voltage	Auto-Recovery
Short Circuit Protection	Auto-Recovery

STATUS / CONTROL

Standby Power	5vsb @ 1,00 A
Remote Sense	250mV Compensation
Remote On/Off	Included
DC OK	Included

APPROVALS:

Emissions EN55022 "B", FCC Part 15 Subject J Class B

Safety Approvals UL 60950-1, CAN/CSA C22.2 No. 60950-1-07
ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10),
CAN/CSA-C22.2 No. 60601-1 (2008), 2 x MOPP

CE Mark (LVD)

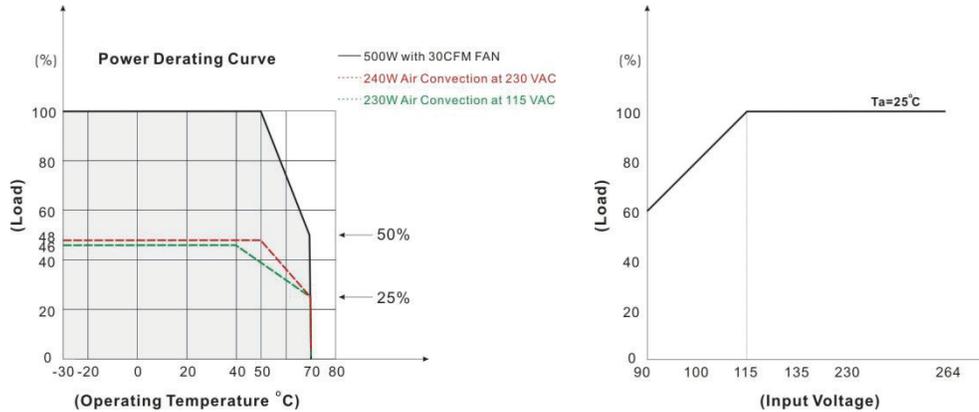


MQF500 SERIES:

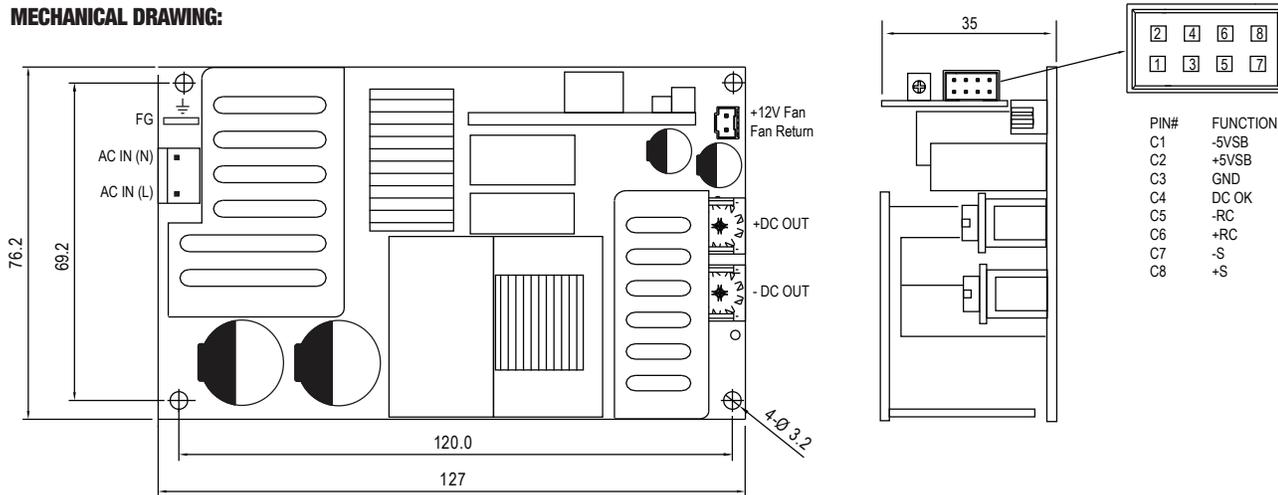
Output Specifications:

Model:	V1	CONVECTION RATING AT 115 VAC INPUT	OUTPUT RATING WITH 30 CFM	EFFICIENCY
MQF5000-12S	12V	19.16 A	41.5 A	90.5%
MQF5000-24S	24V	9.58 A	20.8 A	92%
MQF5000-48S	48V	4.8 A	10.41 A	93%

DERATING CURVES:



MECHANICAL DRAWING:



WEIGHT: 480G

Pin No.	Function	Description
C1	-5VSB	This pin connects to the negative terminal(-V). Return for DC-OK and -RC signal output.
C2	+5VSB	Stand by voltage output ground 4.2~5.5V, referenced to pin C1(-5VSB). The maximum load current is 1A with Fan, 0.4A without Fan..
C3	GND	This pin connects to the negative terminal(-V). Return for DC-OK and -RC signal output.
C4	DC OK	DC-OK Signal is a DC output, referenced to pin C3(DC-OK GND).
C5	-RC	This pin connects to the negative terminal(-V). Return for DC-OK and -RC signal output.
C6	+RC	Turns the output on and off by electrical or dry contact between pin C5 (-RC), Short: Power OFF, Open: Power ON.
C7	-S	Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect.
C8	+S	Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect.