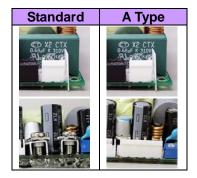


KEY FEATURES

- Enclosed Medical Switching Power Supply
- 4000VAC Input to Output 2MOPP Insulation
- High Efficiency up to 93%
- With P.F.C. Function >0.9
- <0.5W No Load Input Power
- EMI for Both Class I (with FG) and Class II (without FG) Configuration
- Suitable for BF Application with Appropriate System Consideration
- UL / IEC / EN 60601 3.1rd Edition & UL / IEC / EN 60950 AM2 Safety Approvals
- 3-Year Product Warranty







ELECTRICAL SPECIFICATIONS

All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

MOF240F-12S MOF240F-24S MOF240F-24S

Model No.		MQF240E-12S	MQF240E-24S	MQF240E-48S	
Max Output Wattage (with 10CFM FAN) (W)			240 W		
Input	Voltage	(Note 4)	90-264 VAC		
	Frequency (Hz)		47-63 Hz		
	Current (Full load)		< 3.0 A max. (115 VAC) / < 1.5 A max. (230 VAC)		
	Inrush Current (<2ms)		< 45 A max. (115 VAC) / < 90 A max. (230 VAC)		
	Leakage Current		< 0.1mA / 264 VAC (Touch Current)		
	Power Factor		PF>0.9 at Full Load		
Output	Voltage (V.DC.)		12V	24V	48V
	Voltage Adj Range (V.DC.)		±4% Output Voltage		
	Voltage Accuracy		±2%		
	Current max		20	10	5
	Line Regulation		±1%		
	Load Regulation (0-100%)		±1%		
	Minimum Load		0%		
	Maximum Capacitive Load		8000µF	3000μF	470µF
	Ripple & Noise max.	(Note 1)	1% Vout		
	Efficiency (at 230VAC)	(Note 6)	92%	92.5%	93%
	Hold-up Time (at 115 VAC)	(Note 2)	10 ms min.		
	Over Power Protection		Auto recovery, Hiccup mode		
Protection	Over Voltage Protection		Zener diode clamp		
	Overt Temperature Protection		Auto recovery		
	Short Circuit Protection		Auto recovery, Hiccup mode	node	
	Input-Output		4000VAC or 5656VDC		
Isolation	Input-FG		2000VAC or 2828VDC		
	Output-FG		1500VAC or 2121VDC		
Environment	Operating Temperature		-30°C+70°C (with derating)		
	Storage Temperature		-30°C+85°C		
	Temperature Coefficient		±0.05%/°C		
	Humidity		20~90% RH		
	MTBF		>250,000 h @ 25°C (MIL-HDBK-217F, Notice 1)		
	Vibration		10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.		
Physical	Dimension (L x W x H)		4.1 x 2.44 x 1.95 Inches (104 x 62.0 x 49.5 mm) Tolerance ±0.5 mm		
	Weight				
	Cooling Method		Free convection		



ELECTRICAL SPECIFICATIONS

All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

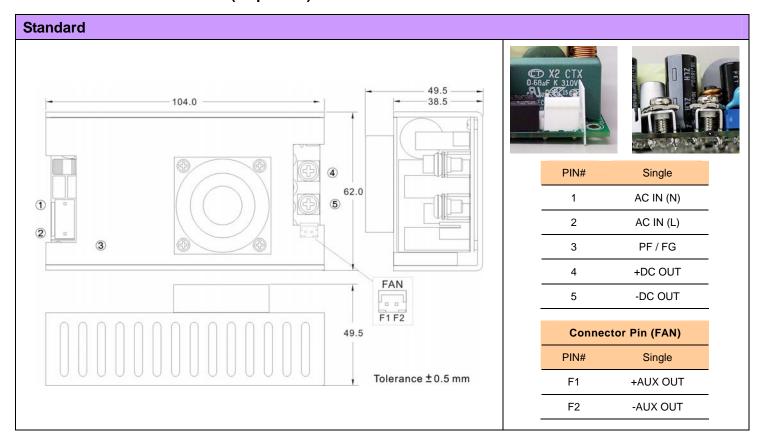
Model No.		MQF240E-12S	MQF240E-24S	MQF240E-48S			
Safety	Approval		UL / IEC / EN 60601 3.1 rd Edition & UL / IEC / EN 60950 AM2				
EMC	Conducted EMI	(Note 7)	EN55011 Conducted & Radiated Class B				
	Radiated EMI	(Note 7)	EN55011 Class I class B / Class II class A				
	ESD		EN61000-4-2 air ± 8kV , Contact ± 4Kv				
	Radiated Immunity		EN61000-4-3 10V/m				
	Fast Transient		EN61000-4-4 ± 2kV				
	Surge		EN61000-4-5 ±1kV				
	Conducted Immunity	Conducted Immunity		EN61000-4-6 10Vrms			
	PFMF	PFMF		EN61000-4-8 30A/m			
	Dips	Dips		EN61000-4-11 30% 10ms			
	Interruption		EN61000-4-11 >95% 5000ms				

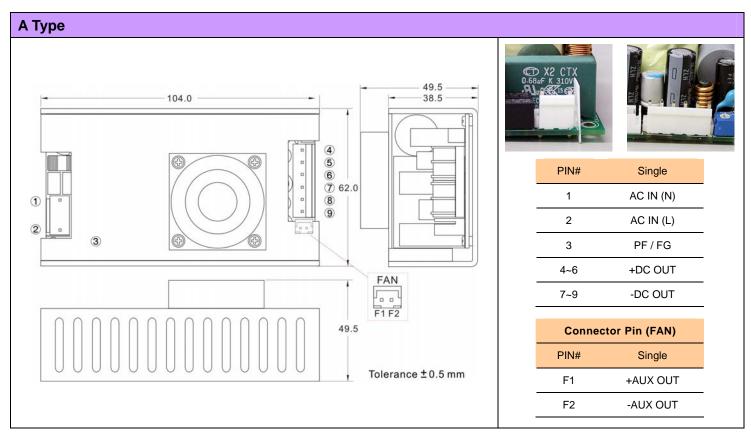
NOTE

- 1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
- 2. Hold-up Time measured at 90% Vout.
- 3. Main Vout must be >50% Load, 12V (Aux) / 0.5A.
- 4. Please check the derating curve for more details.
- 5. Strongly recommend to conduct this test with DC Voltage. If customer wishes to test with AC Voltage, please disconnect all Y-Capacitors within Arch power supply.
- 6. After 30 minutes of burn-in
- 7. Please secure the power supply unit to your metal case by using the four screw holes in the corners for either Class I or Class II equipment
- 8. This product is not designed for use in critical life support systems, equipment used in hazardous environment, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet.



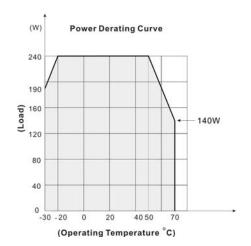
MECHANICAL DIMENSION (Top View)

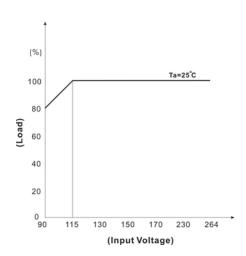






DERATING





BLOCK DIAGRAM

