

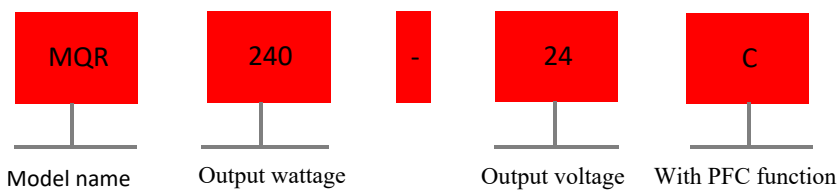
MQR240-□C Series



▲ Features

- Universal AC input/Full range
- Built-in active PFC function
- Protections: short circuit/overload/over voltage/over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35
- 100% full load burn in-test
- 3 years warranty

▲ Model Encoding



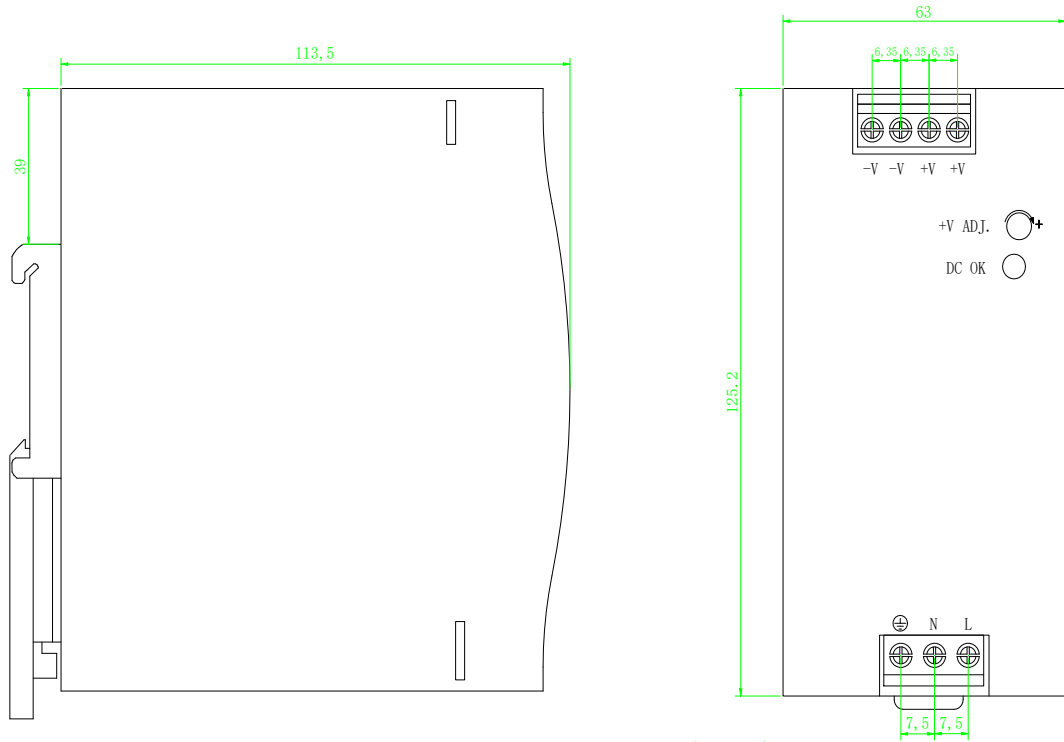


Specifications

Input			
Voltage range Note.1	90-264VAC 127-370VDC		
AC current	2.5A/115VAC 1.3A/230VAC		
Frequency range	47-63Hz		
Inrush current (max)	20A/115VAC 35A/230VAC		
Output			
DC voltage (V)	12V	24V	48V
Efficiency	83%	87%	88%
Rated Current (A)	12.5A	10A	5A
Rated power(W)	150W	240W	240W
Voltage ADJ. range	12-14V	24-28V	48-56V
Ripple & noise(max) Note.2	120mVp-p	150mVp-p	240mVp-p
Voltage tolerange Note.3	±1%	±1%	±1%
Line regulation Note.4	±1%	±1%	±1%
Load regulation Note.5	±1%	±1%	±1%
Setup, rise time	1500ms 100ms/230VAC 3000ms 100ms/115VAC(at full load)		
Hold up time	25ms/230VAC 20ms/115VAC(at full load)		
Status indicator	Green LED		
Protection			
Overload	105%-130% rated output power		
	Protection type: Constant current limiting, recovers automatically after fault condition is removed		
Over voltage(V)	14.4-16.5V	29-33V	57.6-66V
	Protection type:Shut down O/P voltage ,re-power on to recover		
Over temperature	Shut down O/P voltage ,re-power on to recover		
Safety and EMC			
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
Isolation resistance	I/P-O/P,I/P-FG,O/P-FG :100M Ohms/500VDC/25°C/70 % RH		
Safety standards	Design reference EN IEC 62368-1、 GB 4943.1		
EMC emission	Parameter	Standard	Test Level/Note
	Conducted	EN 55032	Class A
	Radiated	EN 55032	Class A
	Voltage Flicker	EN 61000-3-3	Design reference Class A
	Harmonic Current	EN IEC 61000-3-2	Design reference Class A
EMC immunity	Parameter	Standard	Test Level/Note
	ESD	EN 61000-4-2	Level 3 8KV air;Level 2 4KV contact
	Radiated Susceptibility	EN 61000-4-3	Level 2 10V/m
	EFT/Burest	EN 61000-4-4	Level 3 2KV/5KHZ
	Surge	EN 61000-4-5	Level 3 2KV/Line-Line;Level3 4kV/Line-Line-FC
	Conducted	EN 61000-4-6	Level 3 10V
	Magnetic Field	EN 61000-4-8	Level 4 30A/m
Voltage Dips and interruptions	EN 61000-4-11	<5% residual voltage for 0.5 cycles ,70% residual voltage for 25 cycles ,<5% residual voltage for 250 cycles	
Environmental			
Working temperature	- 20~+70 °C (Refer to "Derating curve ")		
Storage temperature	- 40~+85°C		
Storage humidity	10-95 % RH		
Vibration	Component:10-500Hz,2G 10 min/1cycle,60 min each along X,Y,Z axes		

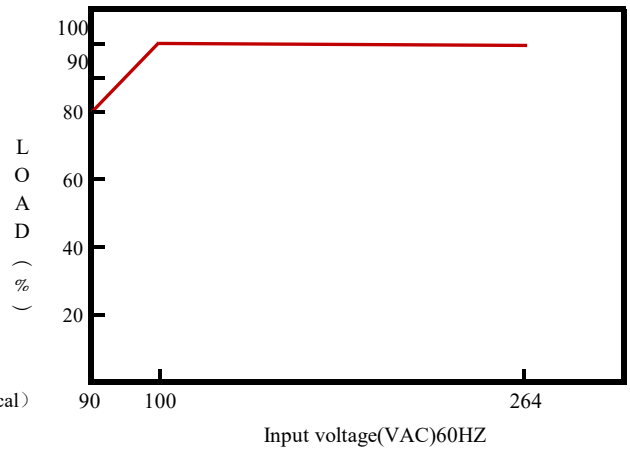
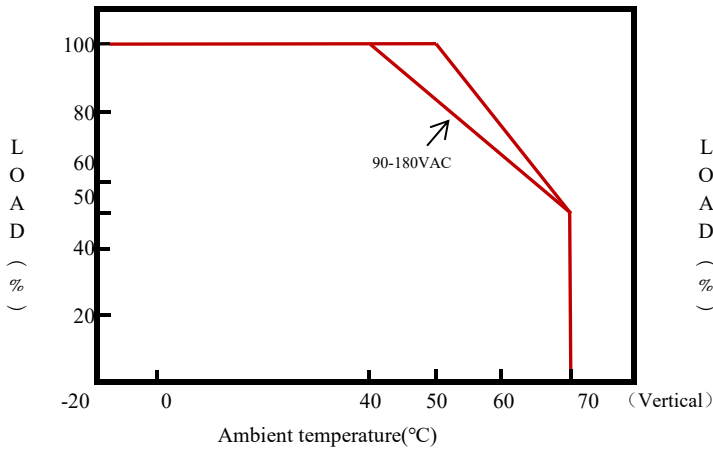
Others		
Mean time between failure	230.2K hrs min MIL-HDBK-217F(25°C)	
Installation	Install on DIN rail TS35	
Protection class	IP20	
Weight	1kg	
Length*width*height	125.2*63*113.5	
Data	Details	Model name
	MQR 150W 12.5A/12V	MQR240-12C
	MQR 240W 10A/24V	MQR240-24C
	MQR 240W 5A/48V	MQR240-48C

Installation Instruction



Tightening Torque Max. :10.35 kgf-cm (9 Lb-in)

Derating curve



Note:

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHZ of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor."
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. Line regulation is measured from low voltage to high voltage at rated load
5. Load regulation is measured from 0% to 100% rated load.
6. According to the requirements of GB4943.1, the power supply is only used for safe use in areas below sea level of 2000M and non-tropical climates.