MQR480-□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-35/7.5 or 15
100% full load burn in-test
3 years warranty

▲ APPlications

Industrial control system
Semiconductor fabrication equipment
Factory automation
Electro-mechanical apparatus

▲ Model Encoding

MQR	480	-	24	C
Model name	Output wattage		Output voltage	With PFC function

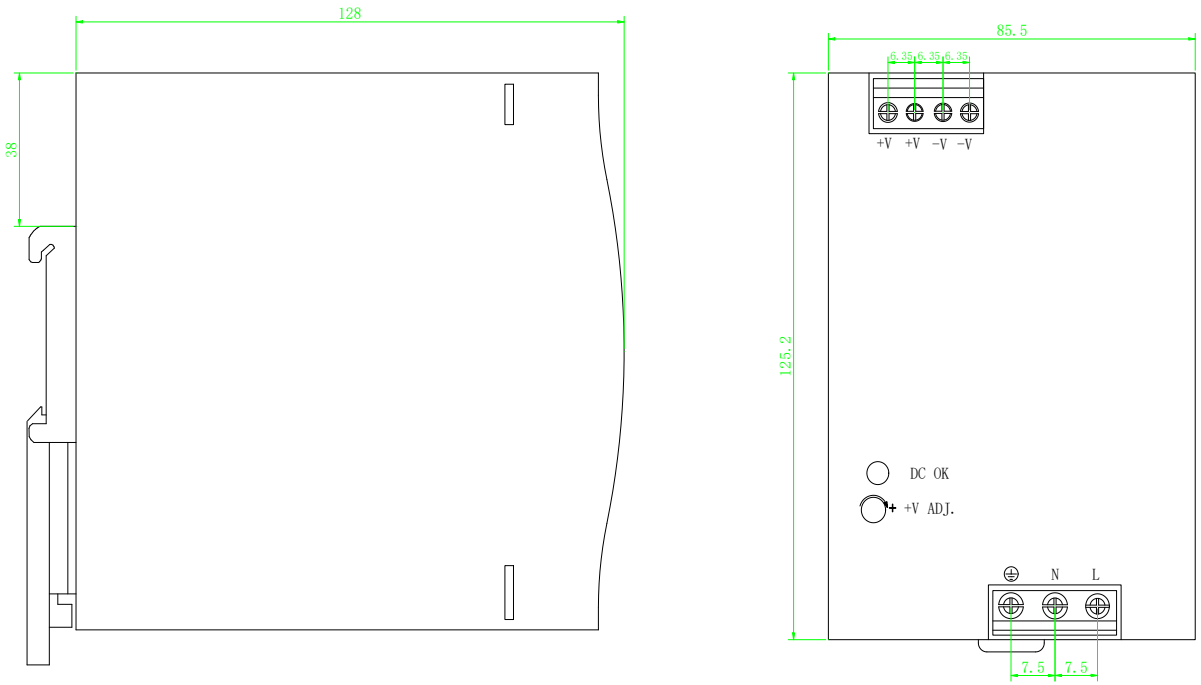
Mibbo

Specifications

Input			
Voltage range Note.1	96-264VAC 120-370VDC		
AC current	4.8A/115VAC 2.4A/230VAC		
Frequency range	47-63Hz		
Inrush current (max)	20A/115VAC 35A/230VAC		
Output			
DC voltage (V)	24V	48V	
Efficiency	90%	90%	
Rated Current (A)	20A	10A	
Rated power(W)	480W	480W	
Voltage ADJ. range	±10%		
Ripple & noise(max) Note.2	150mVp-p	150mVp-p	
Voltage tolerange Note.4	±1%	±1%	
Line regulation	±0.5%	±0.5%	
Load regulation	±1%	±1%	
Setup，rise time	1500ms 100ms/230VAC 3000ms 100ms/115VAC(at full load)		
Hold up time	16ms/230VAC 16ms/115VAC(at full load)		
Status indicator	Green LED		
Protection			
Overload	105%-130% rated output power		
	Protection type: Constant current limiting, until will shut down after 3sec.re-power on to recover		
Over voltage(V)	29-33V	56-65V	
	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℃/70％RH		
Safety standards	60950-1、GB4943.1		
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-FG
	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

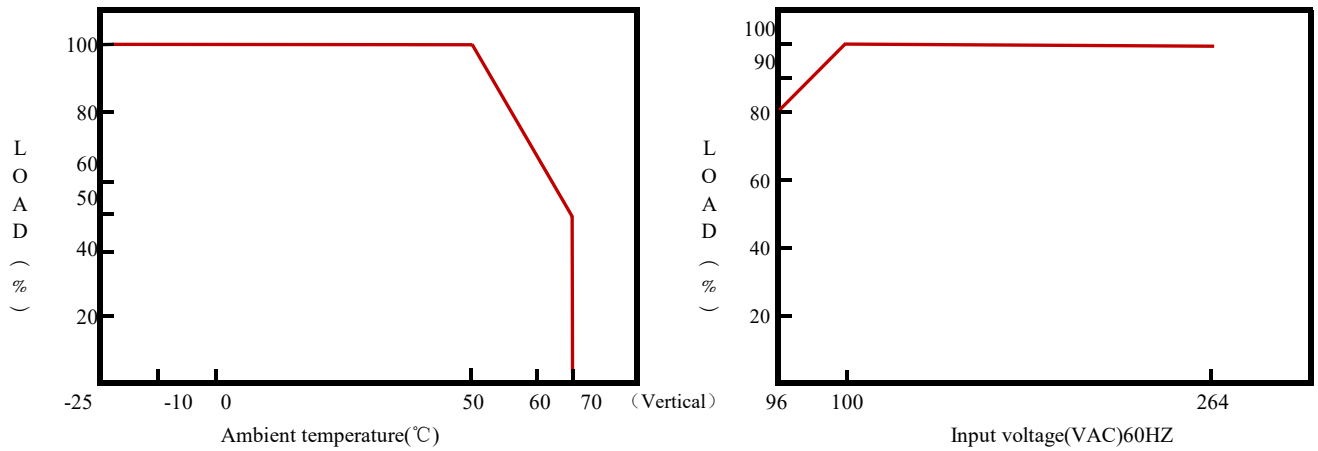
Environmental		
Working temperature	- 25～+70 ℃ （Refer to "Derating curve "）	
Storage temperature	- 40～+85℃	
Storage humidity	10-95％RH	
Vibration	Component:10-500Hz,2G 10 min/1cycle 60 min each along X,Y,Z axes	
Others		
Mean time between failure	146.8K hrs min MIL-HDBK-217F(25℃)	
Installation	Install on DIN rail TS35	
Protection class	IP20	
Weight	1.9kg	
Length*width*height	125.2*85.5*128.5mm	
Data	**Details**	**Model name**
	MQR 480W 20A/24V	MQR480-24C
	MQR 480W 10A/48V	MQR480-48C

Installation Instruction



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

Derating curve



Note:

1.Derating may be needed under low input voltage.Please check the derating curve for more details.
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.All parameters NOT specially mentioned are measured at 230VAC input,rated load and 25℃ of ambient temperature.
4.Tolerance:includes set up tolerance,line regulation and load regulation.
5.The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
6.The power supply is considered a component which will be installed into a final equipment .The final equipment must be re-confirmed that is still meets EMC directives
7.Installation clearances:40mm on top,20mm on the bottom,5mm on the left and right side are recommended when loaded permanently with full power,In case the adjacent device is a heat source,15mm clearance is recommended.