



▲ Specification

Peak load capability up to 150%

Built-in active PFC function, PF>0.94

Efficiency >94%, Low power dissipation

Protections: short circuit/overload/over voltage/over temperature

Built-in constant current limiting circuit

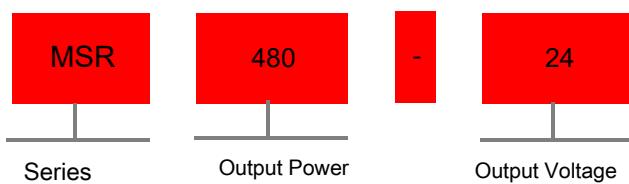
Mounting: DIN rail TS-35/7.5 or 15

Built-in DC OK relay contact

100% full load burn-in test

3 years warranty

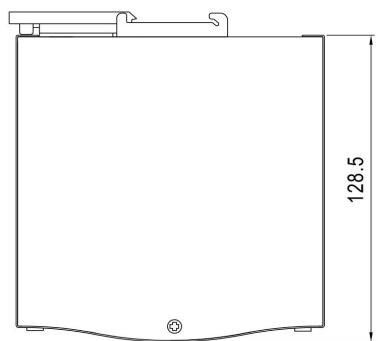
▲ Model Encoding



Specification

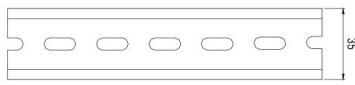
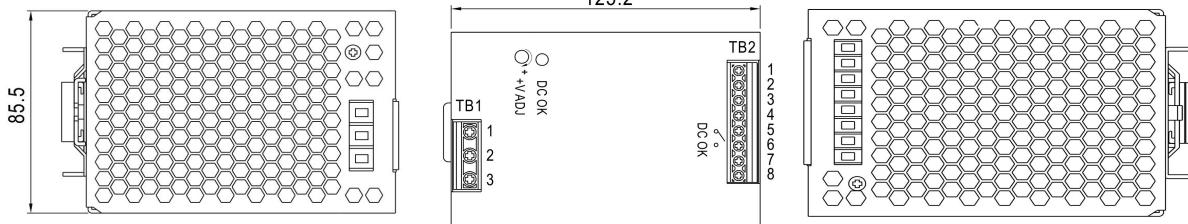
Input			
Input voltage *1	90-264VAC 127-370VDC		
AC current	5A/115VAC 2.5A/230VAC		
Frequency range	47-63Hz		
Inrush current(max.)	40A/115VAC 80A/230VAC		
Output			
DC voltage	24V	48V	
Rated current	20A	10A	
Current range	0-20A	0-10A	
Rated power	480W	480W	
Peak current	30A	15A	
Peak power *2	720W(3S)		
Ripple & noise(max.) *4	100mVp-p	120mVp-p	
Voltage ADJ. range	24-28V	48-55V	
Voltage tolerance *5	±1.2%	±1%	
Line regulation	±0.5%	±0.5%	
Load regulation	±1%	±1%	
Efficiency	94%	94%	
Start up, rise time	1500ms 150ms/230VAC ; 3000ms 150ms/115VAC(@Full load)		
Hold up time	14ms/230VAC(@Full load)		
Status indicator	Green LED		
Protection			
Over load	Normally works within 110%~150% rated output power for more than 3 seconds and then shut down o/p voltage. Automatically recover in 30 seconds >150% of rated power, Constant current limiting within 2 seconds and automatically recover. Shut down O/P in 2S		
Over voltage	29-33V	56-65V	
	Protection type: Shut down O/P voltage ,auto-recover or re-power on to recover		
Over temperature	Protection type: Shut down O/P voltage, automatically recover after the temperature goes down		
DC OK relay contact	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load		
Safety & EMC			
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC		
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500VDC/25°C/70%RH		
Safety standards	Design refer to EN IEC 62368-1、GB4943.1		
EMC emission	Parameter	Standard	Test level
	Conducted	EN 55032	Class B
	Radiated	EN 55032	Class B
	Voltage Flicker	EN 61000-3-3	Design refer to Class A
	Harmonic Current	EN IEC 61000-3-2	Class A
EMC immunity	Parameter	Standard	Test level
	ESD	EN 61000-4-2	Level 3 8KV air;Level 2 4KV contact
	Radiated Susceptibility	EN 61000-4-3	Level 3 10V/m
	EFT/Burst	EN 61000-4-4	Level 3 2KV/5KHZ
	Surge	EN 61000-4-5	Level 3 2KV/L-N;Level3 4kV/L-N-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:
Environment			
Operating temperature	- 25～+70 °C (Refer to "Derating curve")		
Storage temp & humidity	- 40～+85°C, 10～95%RH		
Operating humidity	20～95%RH, Non-condensing		
Vibration	10-500Hz,2G 10min/1 cycle, 60 min along with each X,Y,Z axes		
Others			
MTBF	≥169.3Khrs MIL-HDBK-217F(25°C)		
Installation	TS35 DIN rail		
Protection class	IP20		
Weight	About 1.6kg		
Dimension	125.2*85.5*128.5mm(W*H*D)		
Data	Description	Model	
	MSR 480W 20A/24V	MSR480-24	
	MSR 480W 10A/48V	MSR480-48	

Installation instruction

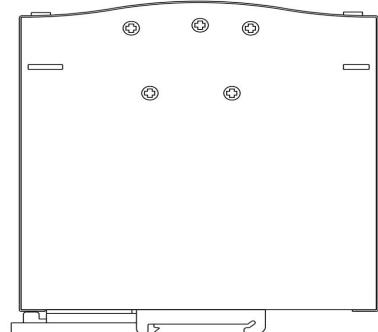


Terminal PIN No. assignment(TB1)

PIN No.	Assignment
1	FG (GND)
2	AC/N
3	AC/L



DIN rail:TS35/7.5 or TS35/15



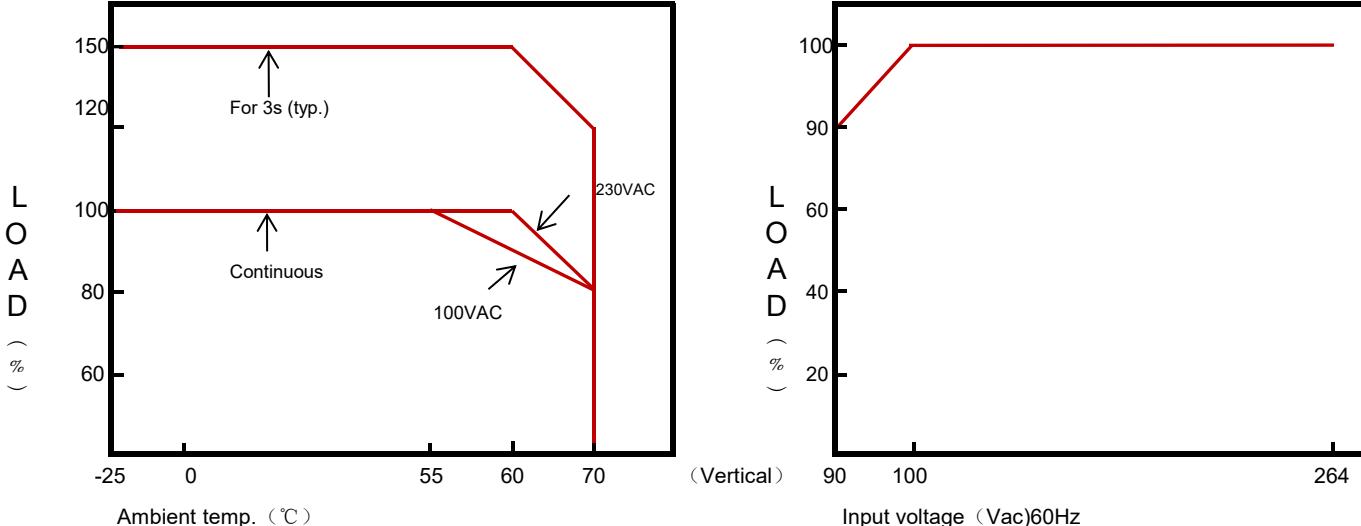
Terminal PIN No. assignment(TB2)

PIN No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V
5,6	Relay contact
7,8	NC

Derating curve



Ta=25°C



Note: 1.3s max. and the average power is not allowed to surpass rating power

2.All parameters are measured at 230VAC input, rated load and 25°C of ambient temperature unless otherwise specified.

3.Ripple & noise are measured at 20MHZ of bandwidth by using a 12' twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

4.Tolerance:includes set up tolerance, line regulation and load regulation.

5.After burn-in 30 min.

6.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.

7.The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

8.Derating may be needed under low input voltage.Please refer to derating curve for more details.