

MTR480-□ Series



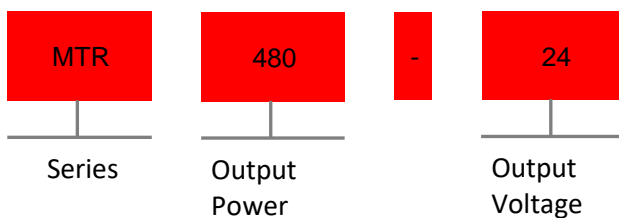
▲ Features

- 340 ~ 550V 3-phase wide range input(2-phase input is possible)
- Width only 85.5mm
- Built-in active PFC function compliance to EN61000-3-2
- High efficiency 93% and low power dissipation
- Protetions: Short-circuit/Overload/Over voltage/Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Install on DIN rail TS-35/7.5 or 15
- DC OK relay contact(optional)
- 3 years warranty

▲ Applications

- Industrial control system
- Semi-conductor manufacturing equipment
- Factory automation
- Mechanical equipment

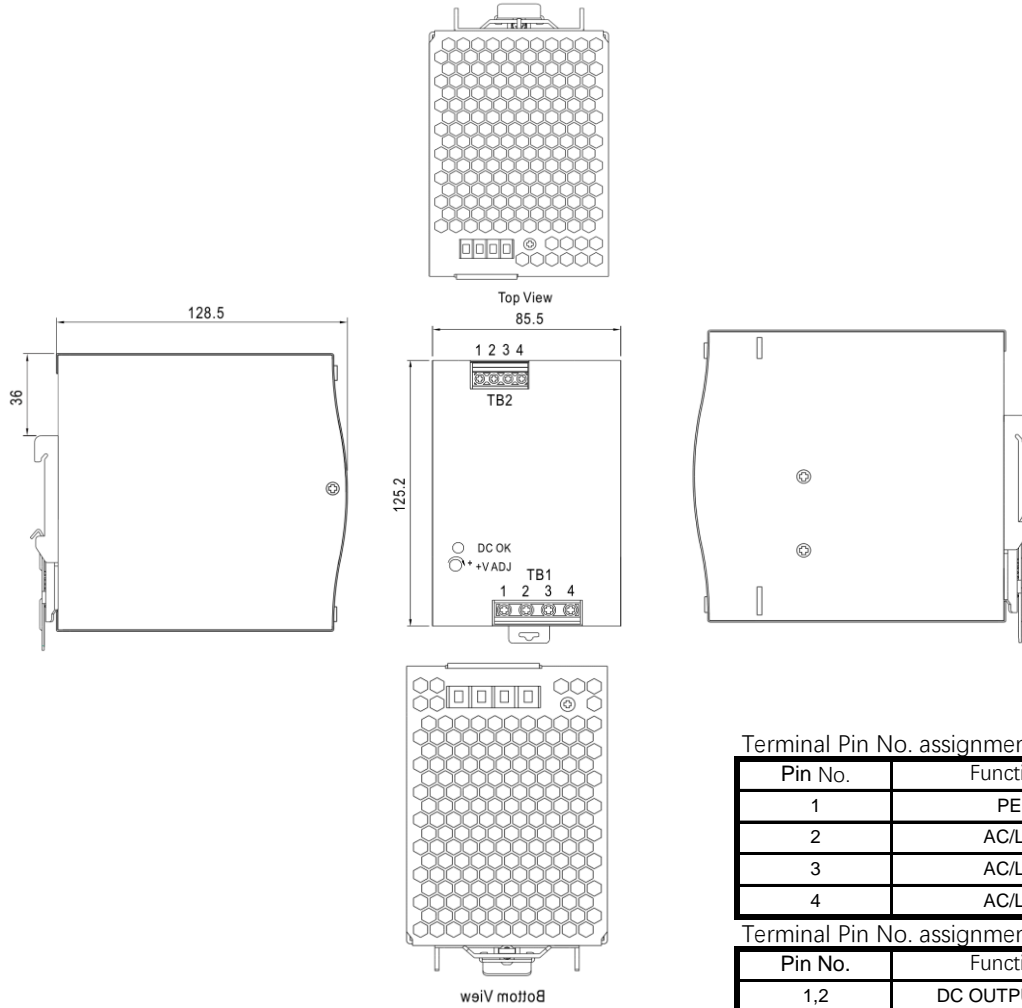
▲ Model Encoding



Specification

Input		
Input Voltage note1	3-phase 340~550VAC(2-phase operation is possible) or 480~780VDC	
Input Current(Typ.)	0.85A/400VAC 0.7A/500VAC	
Input Frequency	47-63Hz	
Inrush Current(Max.)	Cold start: 50A	
Leakage Current	< 3.5mA/530VAC	
Output		
DC Voltage (V)	24V	48V
Rated Current (A)	20A	10A
Current Range (A)	0-20A	0-10A
Rated Power (W)	480W	480W
Ripple & Noise (Max.) *2	150mVp-p	150mVp-p
Voltage ADJ Range	24-28V	48-55V
Voltage Tolerance *3	±1%	±1%
Line Regulation	±0.5%	±0.5%
Load Regulation	±1%	±1%
Efficiency	92.5%	93%
Start Rise Time	1200ms 60ms/400VAC ; 800ms 60ms/500VAC(满载时)	
Hold Up Time	20ms/400VAC 20ms/500VAC(满载时)	
Status Indicator	Green	
Protections		
Overload	105%-130% of rated output power	
	Protection type: Constant current limiting, unit will shut down shut down O/P voltage after 3sec. Recover when re-power ON	
Over Voltage (V)	29-33V	56-65V
	Protection type: Shut down O/P voltage, recover when re-power ON	
Safety & EMC		
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK (可选) :0.5KVAC	
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500VDC/25°C/70%RH	
Safety standards	UL508,IEC60950-1	
EMC emission	EN55032 (CISPR32), EN61204-3 ClassB,EN61000-3-2,-3	
EMC immunity	EN61000-4-2,3,4,5,6,8,11,EN55024,EN61000-6-2(EN50082-2), EN61204-3,A class heavy industrial standard	
Environmental		
Working Temp. note5	- 30 ~ +70 °C (Refer to Derating curve)	
Storage Temp.& Humidity	- 40 ~ +85°C, 10 ~ 95%RH non-condensing	
Working Humidity	20 ~ 95%RH, non-condensing	
Temp.coefficient	±0.03%/°C(0-50°C)	
Vibration	10-500Hz,2G 10min/1 Cycle, 60min each along X,Y,Z axis	
Others		
MTBF	≥391.7Khrs MIL-HDBK-217F(25°C)	
Protetdion class	IP20	
Weight	~ 1.51kg	
Dimension	85.5*125.2*128.5mm	
Data	Description	Model
	MTR 480W 20A/24V	MTR480-24
	MTR 480W 10A/48V	MTR480-48

Installation Instruction



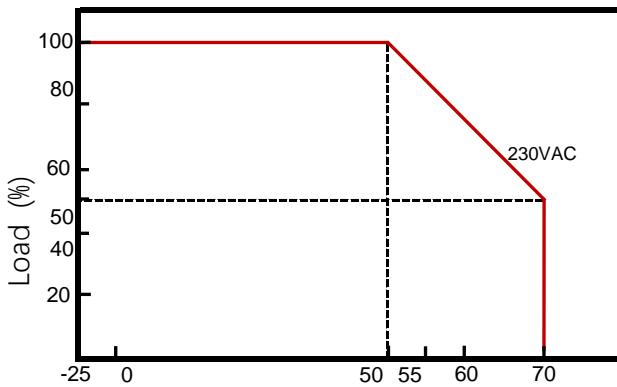
Terminal Pin No. assignment(TB1)

Pin No.	Function
1	PE (⊕)
2	AC/L3
3	AC/L2
4	AC/L1

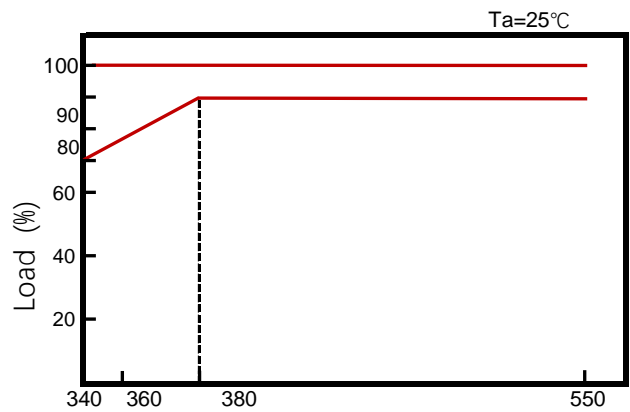
Terminal Pin No. assignment(TB2)

Pin No.	Function
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

Derating curve



Ambient Temp. (°C)



Input Voltage (Vac) 60Hz

- 备注:1.All parameters are measured at 400VAC input, rated load, 25°C of ambient temp. if not specially mentioned
 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.It should be derating output if the input voltage is lower, please refer to Derating Curve for details
 5.Installation clearances: 40mm on top,20mm on bottom and 5mm on left and right are recommended if operating in permantly full load.
 6. The ambient temperature derating of 3.5°C/1000m with non-fan models and of 5°C/1000m with fan models for operating in altitude higher than 2000m (6500ft