

Product Feature

1. Single and two phase wide input range 180 ~ 550VAC
2. Protections: Short circuit/Overload/Over voltage/Over temperature
3. Cooling by free air convection
4. Ultra-thin width: 32mm
5. 4.7KVdc I/O high High isolation (Enhanced Isolation)
6. Can be installed on DIN rail TS-35/7.5 or 15
7. Ultra-wide operating range from -30 °C to +85°C (reduced for temperatures above +60 °C)
8. Adjustable DC output voltage (+20%)
9. Built-in DC OK relay contact


**3 years
Warranty**
1700g/Typ

Describe

The DM-W480 series is a 240W DIN rail power supply with an ultra-wide AC input range. Suitable for installation on the tracks of TS-35/7.5 or TS-35/15. The main features are: it can accept an ultra-wide input voltage range of 180 to 550VAC for one or two phases; the DIN rail type is easy to install and adopts an ultra-thin design (width only 32mm); it has a wide operating temperature range of -30 to +85°C. With a 4.7KVAC high isolation voltage, it can operate at an altitude of 5000m. The output voltage is adjustable (up to +20%), featuring high efficiency, low ripple, low noise, and full protection.

The DM-W480 complies with the BSEN/EN-61000-6-2 industrial exemption standard environment and is applicable to various applications such as industrial automation, monitoring, and communication.

Application areas

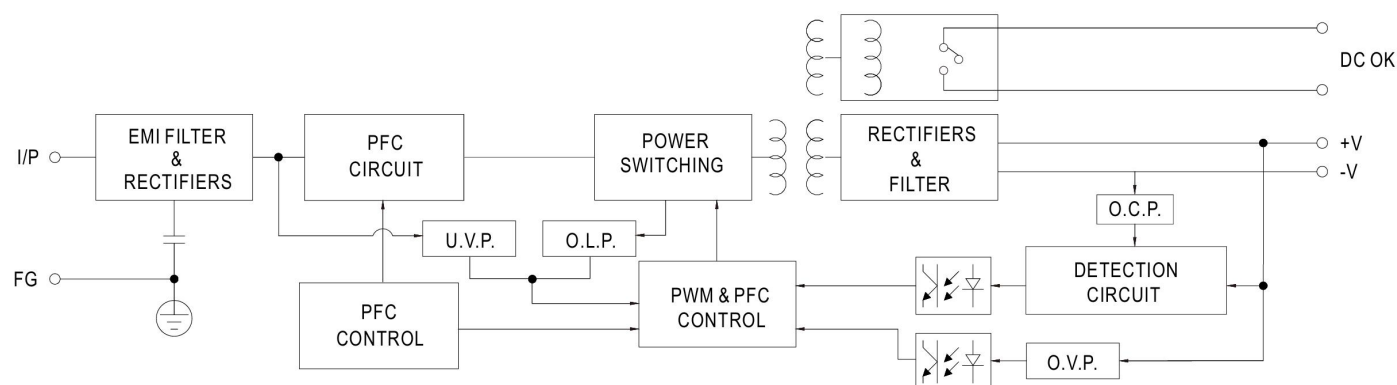
- Industrial automation machinery
- Semiconductor manufacturing equipment
- Industrial control system
- Electronic instruments and equipment

Electrical Specifications

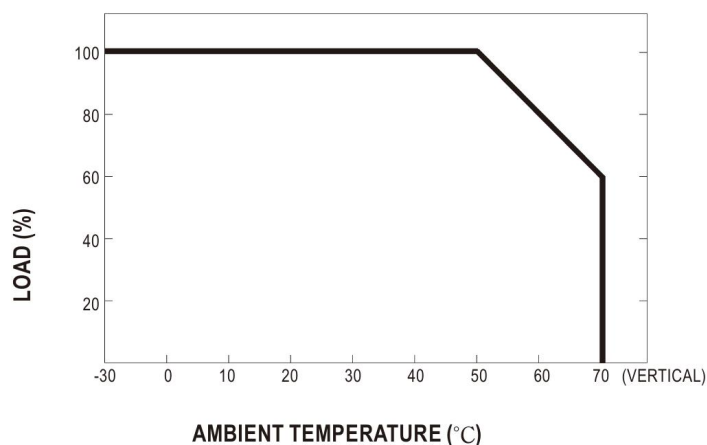
Model number	DM-W480-24	DM-W480-48
DC output	24V	48V
Current	20A	10A
Current range	0-20A	0-10A
Rated power	480W	480W
Ripple and Noise(Max)(20MHZ)	100mVp-p	150mVp-p
Voltage adjustment range	24-28V	48-55V
Voltage accuracy	±1%	±1%
Linear adjustment rate	±0.5%	±0.5%
Load adjustment rate	±1%	±1%
Start/rise time	800ms, 150ms, 18ms/400VAC	
Holding time(Typ.)	2000ms, 150ms, 16ms/230VAC at full load	
Input voltage range	180 ~ 550Vac(254 ~ 780Vdc)	
Frequency range	47-63Hz	
Efficiency	92.00%	93.00%
Input current	1.6A/400VAC 4A/230VAC	
Surge current (cold start)	50A	
Leakage current	<3.5mA / 530VAC	
Overload protection	105-130% of rated output power	
	Protected mode: hiccup mode. The converter should re-work after fault disappear	

Overvoltage protection	29 ~ 33V	56 ~ 65V
	Protected mode:hiccup mode.the converter should re-work after fault disappear	
Short circuit protection	Output terminal short circuit	
	Protected mode:hiccup mode.The converter should re-work after fault disappear	
Operating temperature/humidity	-30°C~+70°C/20-90%RH,No condensation (see "Derating curve")	
Storage temperature/humidity	-40°C~+85°C/5-95%RH,No condensation	
Temperature coefficient	±0.03%/°C (0-60°C)	
Overvoltage level	II;Compliance with EN61558, EN50178,EN60664-1, EN62477-1,EN60204-1,The altitude can be as high as 2,000 meters	
Safety specification	UI61010, BS EN/EN61558-2-16, the AS/NZS 62368. 1, EAC TP TC 004 certification through, design reference GL and BS EN/EN60204-1 (AS required)	
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC	
Insulation impedance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500Vdc / 25°C/ 70% RH	
Electromagnetic compatibility	BS EN/EN55035 , BS EN/EN61000-6-2(BS EN/EN50082-2)	
dimension	85.5*125.2*128.5mm (W*H*D)	
weight	1700g	
Heat dissipation mode	Natural convection	
MTBF	825.4K hrs min. Telcordia SR-332 (Bellcore) ; 112.8K hrs min. MIL-HDBK-217F (25°C)	

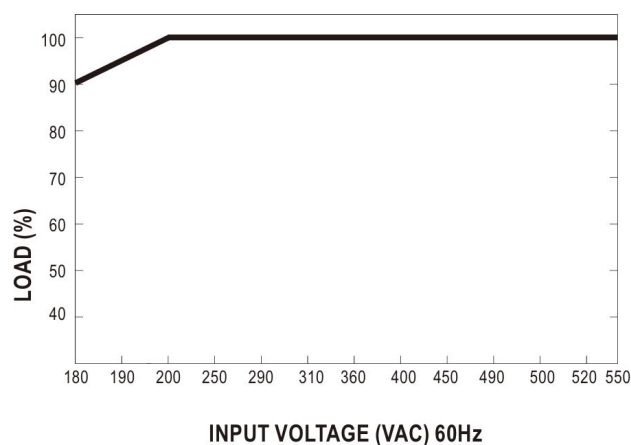
Block Diagram



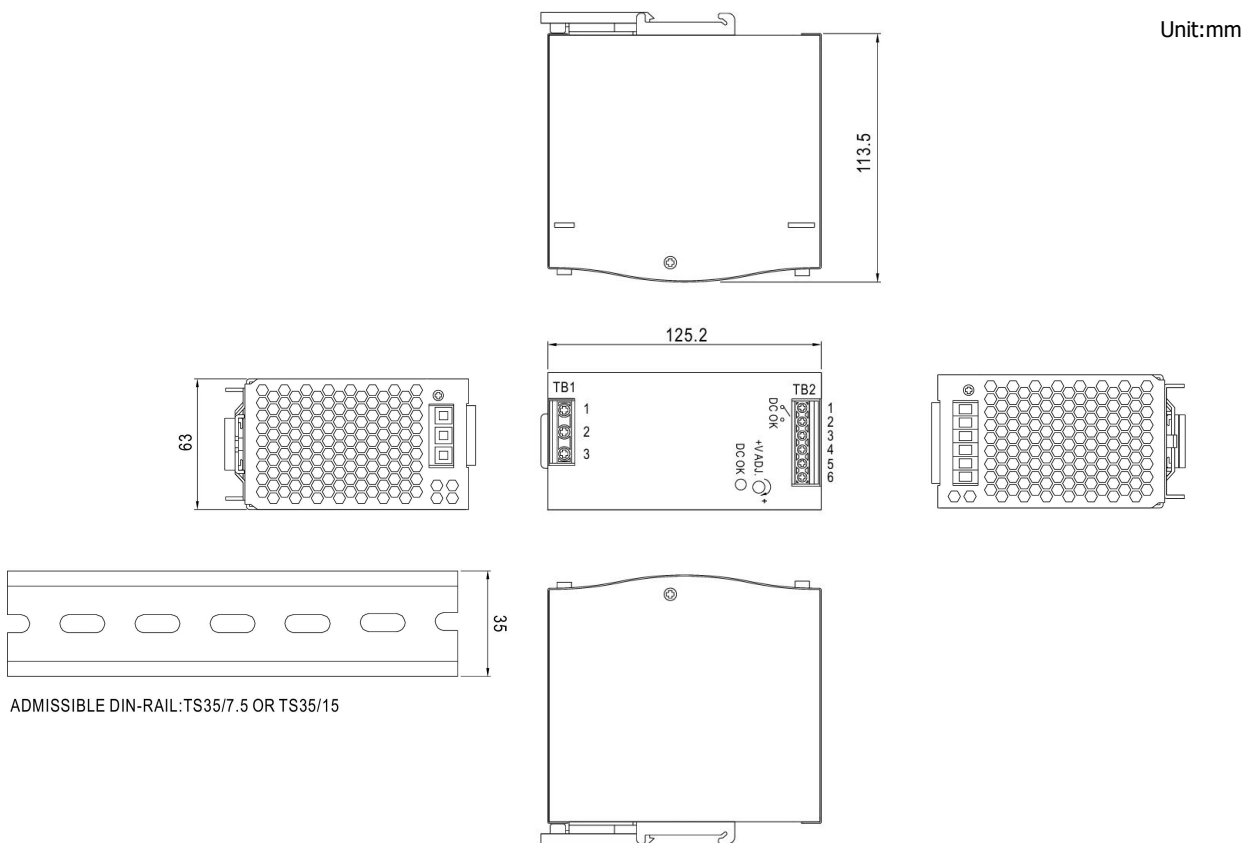
Derating Curve



Output Derating VS Input Voltage



Mechanical Specification



Terminal Pin No. Assignment(TB1)

Pin	Function
1	FG
2	AC/L2
3	AC/L1

Terminal Pin No. Assignment(TB2)

Pin	Function
1,2	Relay contact
3,4	DC output -V
5,6	DC output +V

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