

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

650g/Typ.

Describe

The DM-W75 series is a 75W 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-W75 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

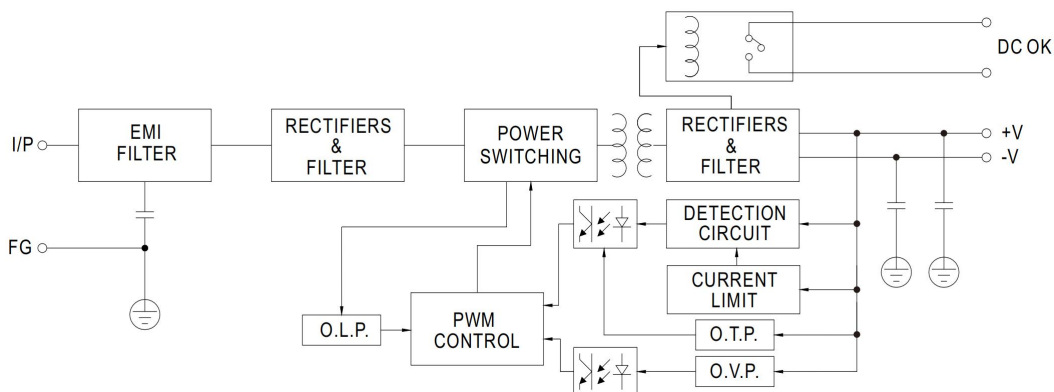
- Industrial automation machinery
- Semiconductor manufacturing equipment
- Industrial control system
- Electronic instruments and equipment

Electrical Specifications

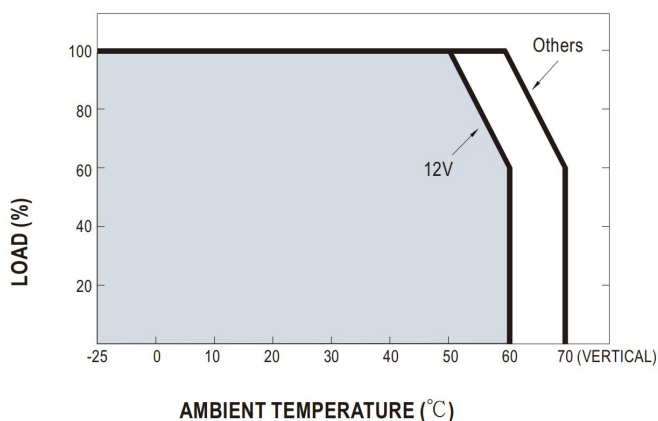
Model number	DM-W75-5	DM-W75-12	DM-W75-24	DM-W75-48
DC output	5V	12V	24V	48V
Current	12 A	6.25A	3.2A	1.56A
Current range	0-12 A	0-6.25A	0-3.2A	0-1.56A
Rated power	60W	75W	75W	75W
Ripple and Noise(Max)(20MHZ)	100mVp-p	120mVp-p	150mVp-p	200mVp-p
Voltage adjustment range	5-6V	12-15V	24-29V	48-57V
Voltage accuracy	±2%	±1.5%	±1%	±1%
Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%
Load adjustment rate	±1.5%	±0.5%	±0.5%	±0.5%
Start/rise time	1000ms, 70ms, 20ms/400Vac 2000ms, 70ms, 10ms/230Vac at full load			
Holding time(Typ.)	30ms/230VAC 12ms/115VAC at full load			
Input voltage range	180 ~ 550Vac(254 ~ 780Vdc)			
Frequency range	47-63Hz			
Efficiency	83.50%	86.50%	89.00%	90.50%
Input current	0.4A/400Vac 0.7A/230Vac			
Surge current (cold start)	50A /400Vac 30A/230Vac			
Leakage current	<2mA / 530Vac			
Overload protection	When the rated output power is between 105% and 135%, and the output voltage is less than			

	50%, it is in burp mode. It can automatically recover after the abnormal load conditions are removed			
	When the output voltage is between 50% and 100%, it is in constant current mode and can automatically recover after the abnormal load conditions are removed			
Overvoltage protection	6.2 ~ 7.2V	16 ~ 18V	31 ~ 37V	58 ~ 60.5V
	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	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:4.7KVAC I/P-FG:2.5KVAC 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	40*125.2*113.5mm (W*H*D)			
weight	650 g			
Heat dissipation mode	Natural convection			
MTBF	1900.1K hrs min. Telcordia SR-332 (Bellcore) ; 313.7K hrs min. MIL-HDBK-217F (25°C)			

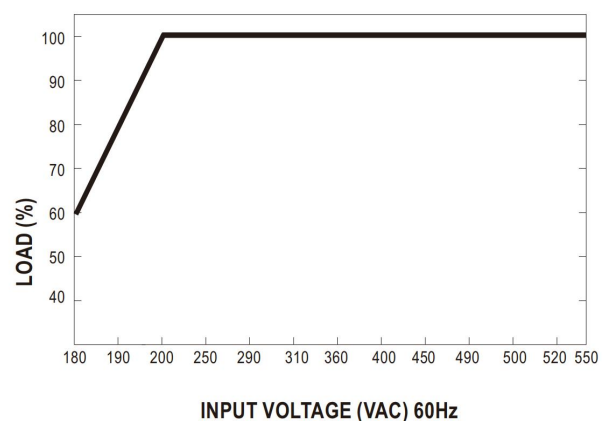
Block Diagram



Derating Curve

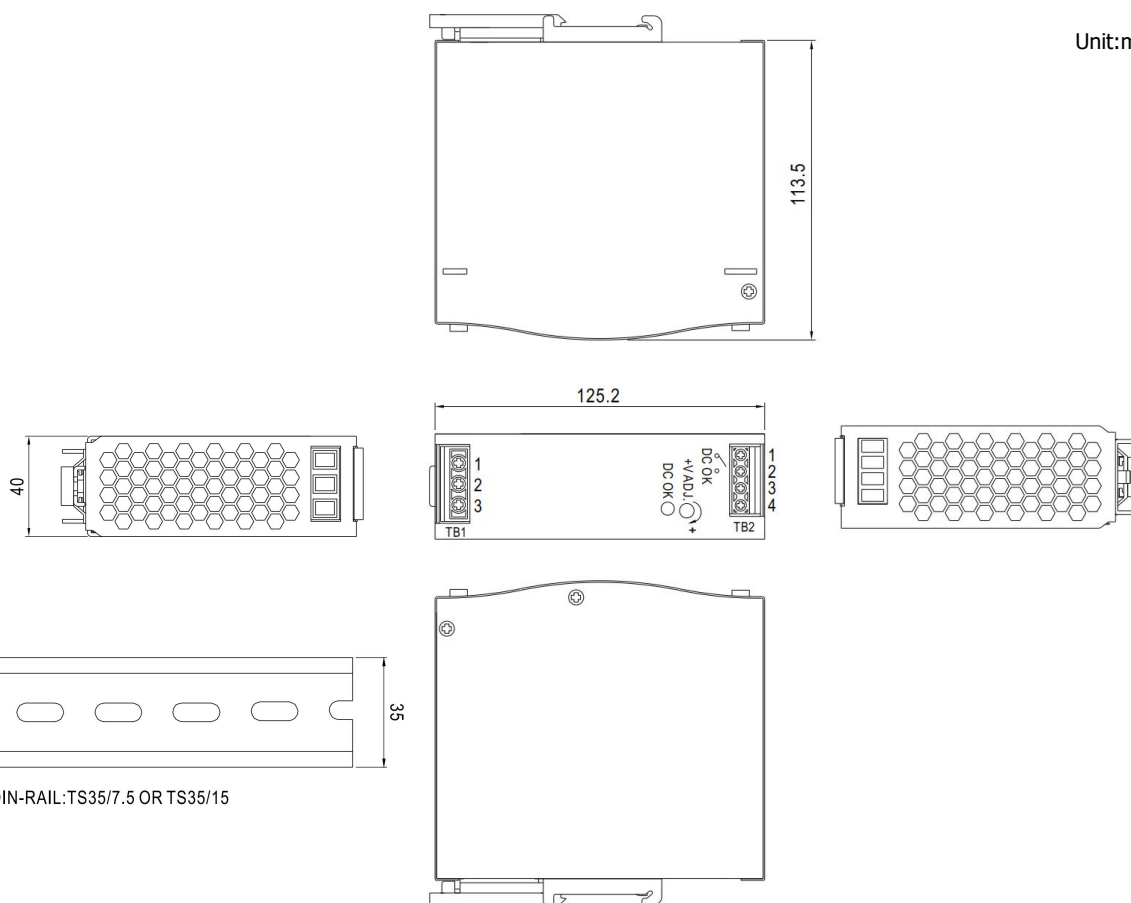


Output Derating VS Input Voltage



Mechanical Specification

Unit:mm



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15

Terminal Pin No. Assignment(TB1)

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

Terminal Pin No. Assignment(TB2)

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