

## Product Feature

1. Universal AC input/Full range
2. Protections:Short circuit/Overload/Over voltage/Over temperature
3. Cooling by free air convection
4. Can be installed on DIN rail TS-35/7.5 or 15
5. 100%full load burn-in test
6. 3 years warranty

## Safety regulations and electromagnetic compatibility

- Safety specification CCC GB4943.1-2022
- Withstand voltage

Input-output :3KVAC, input-ground:2KVAC, output-ground:0.5KVAC

- Insulation impedance

Input-output and input -output -ground:20M Ohms/500VDC/25°C,70%RH

- Electromagnetic compatibility

Meet EN 55032, GB/T9254, FCC Class B CE62368

Note:The power supply should be considered as part of the components in the system,and the electromagnetic compatibility should be confirmed with the terminal equipment



3 years  
Warranty

510g/Typ.

## Environment

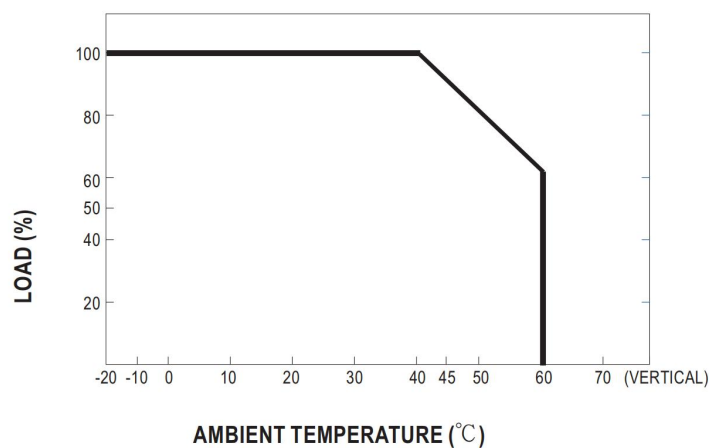
- Operating temperature/humidity  
-20°C-+60°C/20-95%RH,non-condensing(please refer to "Derating curve")
- Storage temperature/humidity  
-40°C-+85°C/10-95%RH, non-condensing
- MTBF  
>50KH MIL-HDBK-217F(25°C)

## Electrical Specifications

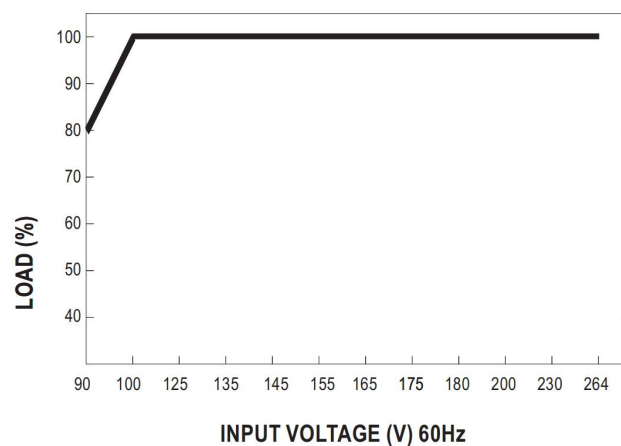
Model number	DM-120-12	DM-120-24	DM-120-48
DC output	12V	24V	48V
Rated current	10A	5A	2.5A
Current range	0-10A	0-5A	0-2.5A
Rated power	120W	120W	120W
Ripple and Noise (20MHz)	100mVp-p	120mVp-p	150mVp-p
Voltage adjustment range	12-14V	24-28V	48-55V
Linear adjustment rate	±0.5%	±0.5%	±0.5%
Load adjustment rate	±1%	±1%	±1%
Start/rise time(Typ.)	1200ms,60ms/230VAC      2500ms,60ms/115VAC at full load		
Holding time(Typ.)	16ms/230VAC      10ms/115VAC at full load		
Input voltage range	AC 88V-264V		
Frequency range	47-63Hz		
Efficiency(230VAC)	85%	87.5%	88.5%
Maximum input current	2.6A max.@100V		
Inrush current	80A (Typ.)@230V cold start		
Leakage current	<1mA @240V		

Overload protection	105%-130% of rated output power		
	Protection mode:Constant current mode:automatically recovers after the faulty disappears		
Overvoltage protection	14-17V	29-35V	56-65V
	Protection mode:the output is turned off and normal output can be restored after the converter restart		
Short circuit protection	Output terminal short circuit		
	Protected mode:hiccup mode.The hiccup mode can be automatically recovered after the faulty disappears		
Dimension	40*113.5*125.2mm		
Weight	0.51kg		

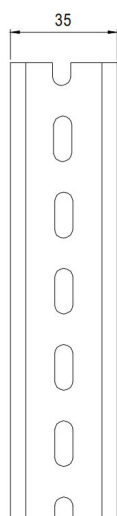
### Derating Curve



### Output Derating VS Input Voltage



### Installation Instruction

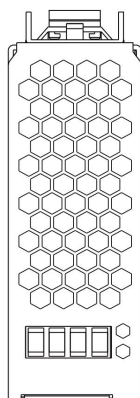


Install DIN rail TS35/7.5 or TS35/15

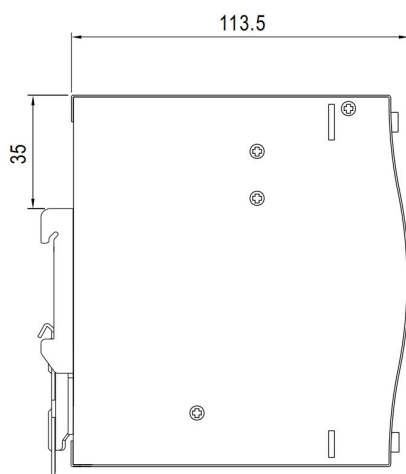
This series fits DIN rail TS35/7.5 or TS35/15.

### Mechanical Specification

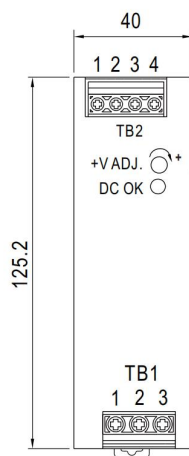
Unit:mm



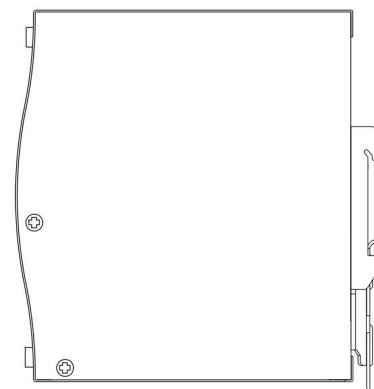
Top View



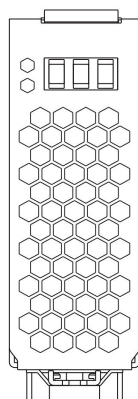
Side View



Front View



Side View



Bottom View

Terminal Pin No. Assignment(TB1)

Pin	Function
1	FG
2	AC/N or DC-
3	AC/L or DC+

Terminal Pin No. Assignment(TB2)

Pin	Function
1,2	DC OUTPUT -V
3,4	DC OUTPUT +V

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