

## MDS-050W□□S Series



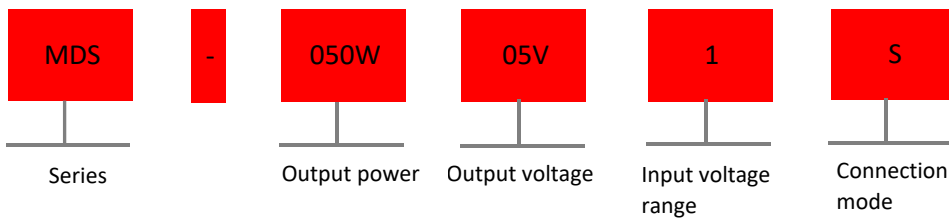
### ▲ Specification

- Superior ripple performance
- 2:1 wide range input
- 100% full load burn-in test
- Protection: Over Voltage/Over load/Short circuit
- Power ON LED indicator
- TS 35 rail installation(with optional rail mounting bracket)
- Cooling by free air convection
- Seismic protection
- “Three pivot point”M4 installation
- Terminal with protective cover
- Alluminum case
- 2 years warranty

### ▲ Application

- Industrial automation control system
- Intelligent control system
- Electronic instruments and devices
- LED power supply
- Household appliances

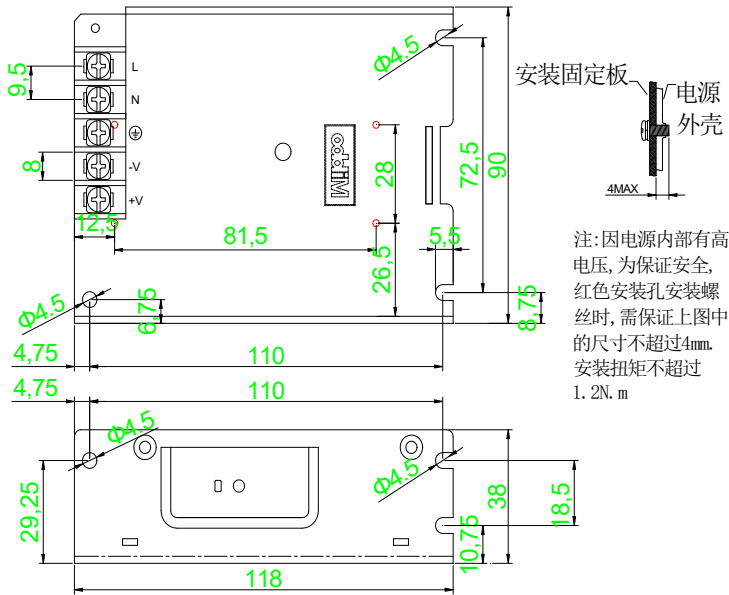
### ▲ Model encoding



## Specification

Input			
Input voltage	1:9.2-18VDC 2:19-36VDC 3:36-72VDC		
Input current (DC)	7A/12V 3A/24V 1.5A/48V		
Output			
DC voltage (V)	5V	12V	24V
Efficiency	78%	78%	83%
Voltage ADJ range	±10%		
Rated current(A)	10.0A	4.1A	2.1A
Rated power (W)	50W	50W	50W
Ripple & noise(max )note2	80mVp-p	100mVp-p	120mVp-p
Voltage tolerance note3	±2%	±1%	±1%
Line regulation noite4	±0.5%	±0.3%	±0.3%
Load regulation note5	±0.5%	±0.3%	±0.3%
Setup, rise, hold up time	10ms(at full load)		
Status indicator	Green LED		
Protection			
Over load	120%-150% of the rated output power		
	Protection mode: Hiccup mode. recover automatically after fault condition is removed		
Over voltage (V)	5.6-6.8/10% of load	16.8-20/10% of load	31.5-37.5/10% of load
	Protection mode: Hiccup mode. recover automatically after fault condition is removed		
Safety and EMC			
Withstand voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC		
Insulation resistance	I/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH		
Safety standard note 6	60950-1、GB4943.1		
EMC emission	Compliance to EN55022(CISPR22)Class B,EN61000-3-2,-3		
EMC immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61000-6-1,light industry level,criteria A		
Environment			
Working temperature	- 20~+70℃ (Refer to derating curve)		
Storage temperature	- 20~+85℃		
Storage humidity	10-95%RH		
Vibration resistance	10-500Hz,2G 10Min/Circle 60min in each X,Y,Z direction		
Others			
MTBF	≥360Khrs(9-18/18-36VDC) ≥370Khrs(36-72VDC) MIL-HDBK-217F(25℃)		
Installation	Screw in plate or install in TS35 rail with the accessory		
Protection class	IP20		
Weight	About 0.28Kg		
Dimension	118*90*38mm(Length* Width*Height)		
Data	Description	Model	
	MDS 50W 10A 5V 9.2-18VDC	MDS-050W05V1S	
	MDS 50W 10A 5V 18-36VDC	MDS-050W05V2S	
	MDS 50W 10A 5V 36-72VDC	MDS-050W05V3S	
	MDS 50W 4.1A 12V 9.2-18VDC	MDS-050W12V1S	
	MDS 50W 4.1A 12V 18-36VDC	MDS-050W12V2S	
	MDS 50W 4.1A 12V 36-72VDC	MDS-050W12V3S	
	MDS 50W 2.0A 24V 9.2-18VDC	MDS-050W24V1S	
	MDS 50W 2.0A 24V 18-36VDC	MDS-050W24V2S	
	MDS 50W 2.0A 24V 36-72VDC	MDS-050W24V3S	
Accessory	Description	Model	
<b>Rail Pin</b>	TS35 mouting accessory	MPS-F050B	

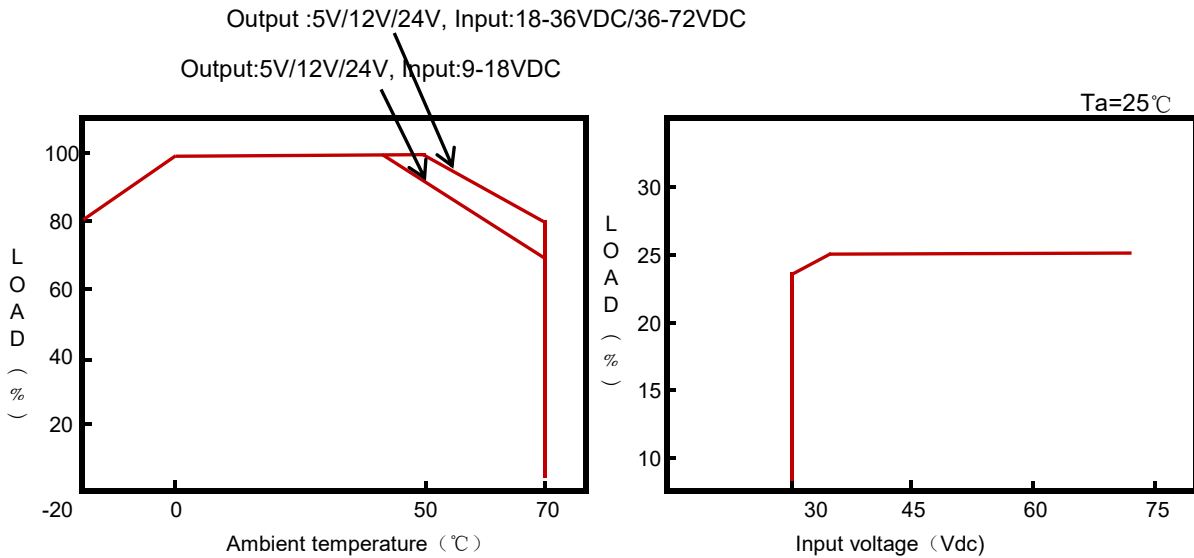
Installation instruction



接线端子安装说明

端子排规格	U形接线端子宽度	线材安装规格	最大扭矩
95端子排	8mm MAX	22-12AWG	1.2N.m(MAX)

Derating curve



Note:

- 1:All parameters NOT specially mentioned are measured at 24/48/96VDC, input, rated load and 25°C of ambient
- 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.Line regulation is measured from High voltage to low voltage at rated load
- 5.Load regulation is measured from 0% to 100% rated load.
- 6.According to the requirements of GB4943.1,the power supply is only used in areas below sea level of 2000M and non-tropical climates.