



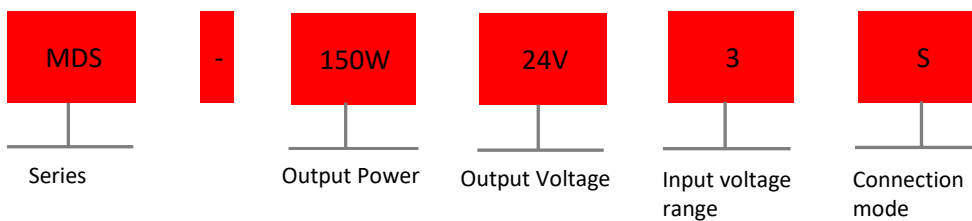
### ▲ Specification

- superior ripple
- 2:1 wide range input
- 100% full load burn-in test
- Protection: Over Voltage/Over load/
- Power ON LED indicator
- TS 35 rail installation(with optional)
- Efficient natural cooling
- Seismic protection
- "Three pivot point" M4 installation
- Terminal block 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



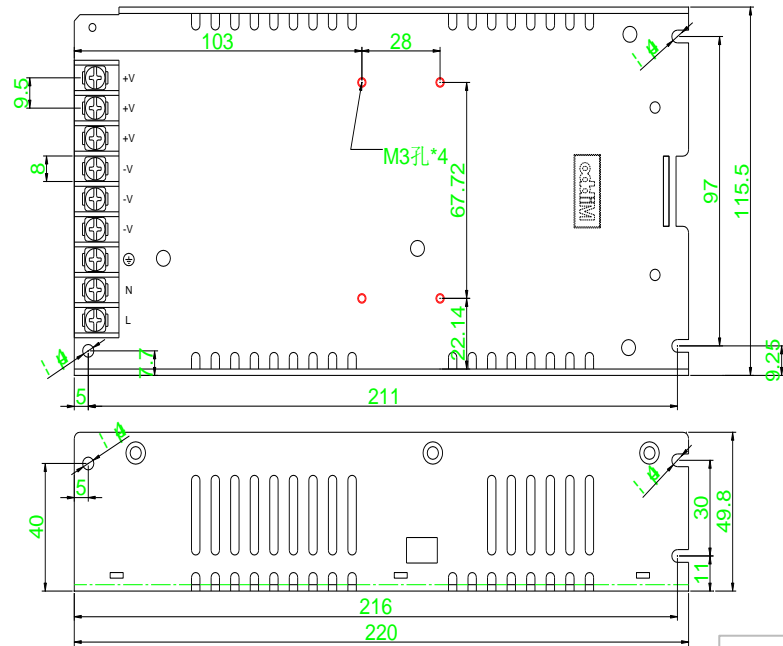


## Specification

Input			
Input voltage	2:18-36VDC 3:36-72VDC 4:72-144VDC		
Input Current (DC)	8.5A/24V 4.2A/48V 2.1A/96V		
Output			
DC voltage (V)	12V		24V
Efficiency	75,00%		75,00%
Output voltage adjustment range	±10%		±10%
Rated current (A)	12.5A		6.3A
Rated power (W)	150W		151.2W
Ripple & noise(max MVP-P)note2	120mVp-p		150mVp-p
Voltage tolerance note3	±1%		±1%
Line regulation note4	±0.5%		±0.3%
Load regulation note5	±0.5%		±0.3%
Setup, rise time	2.5s 50ms (Models with input voltage range of 72-144VDC at full load)		
Hold up time	20ms (Models with input voltage range of 72-144VDC at full load)		
Status indicator	Green LED		
Protection			
Over load	110%-150% of the rated output power		
	Protection mode: Hiccup mode, recover automatically after fault condition is removed		
Over voltage (V)	16.8-20/10% of load		31.5-37.5/10% of load
	Protection mode: Hiccup mode, the abnormal voltage can be restored to normal output after removal and restart.		
"Three-proof" treatment	Suitable for high dust, condensation environments		
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°C/70% RH		
Safety standard note 6	设计参考EN IEC 62368-1、GB4943.1		
EMC emission	Parameters	Standard	Test level
	Conducted	EN 55032	Reference Class A
	Radiated	EN 55032	Reference Class A
	Voltage Flicker	EN 61000-3-3	Reference Class A
	Harmonic Current	EN IEC 61000-3-2	Reference Class A
EMC immunity	Parameters	Standard	Test level
	ESD	EN 61000-4-2	Level 3, 8KV air; Level 2, 4KV contact
	Radiated Susceptibility	EN 61000-4-3	Level 2, 3V/m
	EFT/Burest	EN 61000-4-4	Level 3, 2KV
	Surge	EN 61000-4-5	Level 3, 2KV/Line-Line; Level 3, 4KV/Line-Line
	Conducted	EN 61000-4-6	Level 2, 3V
	Magnetic Field	EN 61000-4-8	Level 2, 3V/m
	Voltage Dips and interruptions	EN 61000-4-11	<5% residual voltage for 0.5 cycles, 70% residual voltage for 25 cycles, <5% residual voltage for 250 cycles:
Environment			
Working temperature	-10~+60°C (>50°C derating, refer to derating curve)		
Storage temperature	-20~+90°C		
Storage humidity	5-95%		
Vibration resistance	10-500Hz, 2G 10Min/Circle 60min in each X, Y, Z direction		

Others		
MTBF	≥350Khrs (36-72VDC) MIL-HBDK-217F (25°C)	
Installation	Screw in plate or install in TS35 rail with the accessory	
Protection class	IP20	
Weight	About 0.79Kg	
Dimension	220*115*50mm	
Data	Description	Model
	MDS 150W 12.5A 12V 18-36VDC	MDS-150W12V2S
	MDS 150W 12.5A 12V 36-72VDC	MDS-150W12V3S
	MDS 150W 12.5A 12V 72-144VDC	MDS-150W12V4S
	MDS 150W 6.3A 24V 18-36VDC	MDS-150W24V2S
	MDS 150W 6.3A 24V 36-72VDC	MDS-150W24V3S
	MDS 150W 6.3A 24V 72-144VDC	MDS-150W24V4S
Accessory	Description	Model
Rail Pin	TS35 mounting accessory	MPS-F050C

## Installation instruction



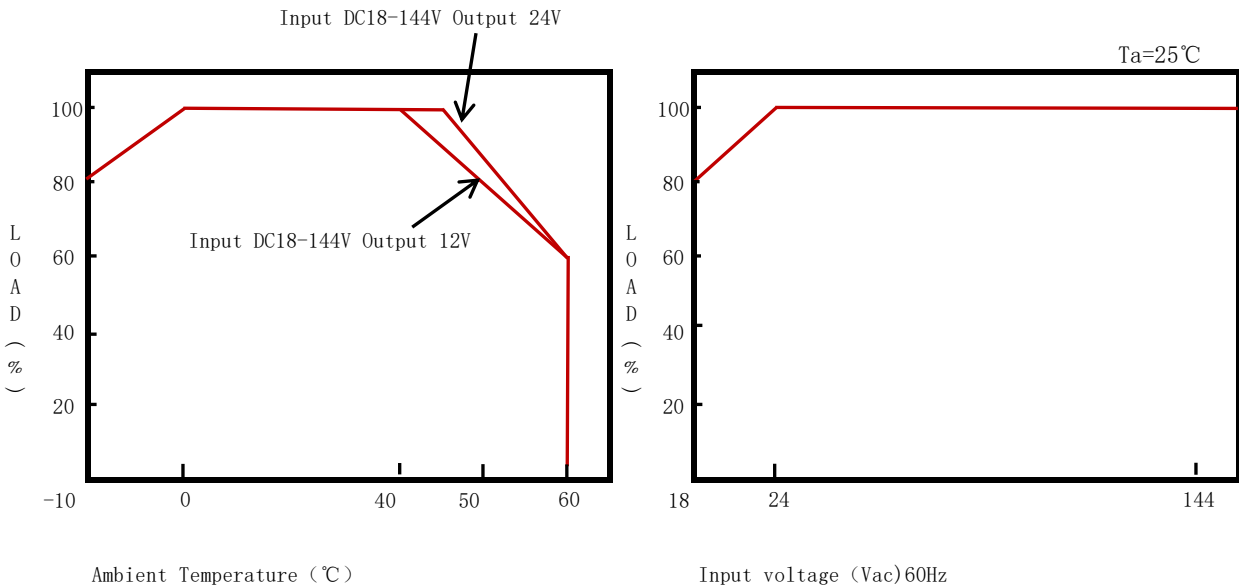
### Wiring Terminal Installation Instructions

Terminal Block	U-Terminal Width	Wire Installation	Max Torque
95	8mm MAX	22-12AWG	12N.m(MAX)

Mounting Bracket  
Power Supply Casing

Note: Due to the high voltage inside the power supply, for safety reasons, when installing screws in the red mounting holes, ensure that the dimensions in the diagram do not exceed 4mm. The installation torque should not exceed 1.2N.m.

## Temperature Curve



### Note:

- 1: All parameters NOT specially mentioned are measured at input 48VDC, rated load and 25°C ambient Temperature
- 2: Ripple & noise are measured at 20MHz of bandwidth by using a "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

