Mibbo

MDS-100W□□S Series



▲ Specification

superior ripple
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)
Efficient natural cooling
Seismic protection
"Three pivot point"M4 installation
Terminal block with protective cover
Alluminum case
3 years warranty

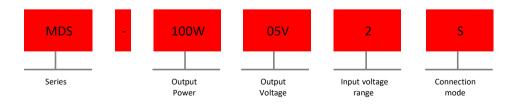
▲ Application

Industrial automation control system Intelligent control system Electonic instruments and devices

LED power supply

Household appliances

▲ Model encoding





Specification

Specification				
Input				
Input voltage	2:18-36VDC 3:36-72VDC 4:72-144VDC			
Input Current (DC)	4. 8A/24V 2. 4A/48V 1. 8A/96V			
Output				
DC voltage (V)	5V	12V	24V	
Efficiency	73%	77%	78%	
Output voltage	±10%	•		
adjustment range				
Rated current (A)	20A	8. 5A	4. 2A	
Rated power (W)	100W	102W	100. 8W	
Ripple & noise(max MVP- P)note2	100mVp-p	120mVp-p	150mVp-p	
Voltage tolerance note3	±2%	\pm 1%	±1%	
Line regulation note4	±0.5%	$\pm 0.3\%$	±0.3%	
Load regulation note5	±1%	±0.6%	±0.6%	
Setup, rise time	2s 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				
110%-150% of the rated output power				
Over load	Protection mode: Hiccup mode, recover automatically after fault condition is removed			
	5. 6-6. 8/10% of load	16.8-20/10% of load	31.5-37.5/10% of load	
Over voltage (V)	Protection mode: Voltage clamping mo	ode, normal output can be restored at	fter removal and reboot	
Safety and EMC		•		
Withstand voltage	I/P-0/P:1.5KVAC I/P-FG:1.5KVAC ()/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	Reference EN IEC 62368-1, GB4943.1			
barety branadra nece e	Parameters	Standard	Test level	
	Conducted	EN 55032	Reference Class A	
EMC emission	Radiated	EN 55032	Reference Class A	
LMC CIII 331011	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; Level3, 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	
Environment				
Working temperature	-20~+60°C (>50°C derating, refer to derating curve)			
Storage temperature	- 20∼+85℃			
Storage humidity	5-95 %			
Vibration resistance	10-500Hz, 2G 10Min/Circle 60min in each X, Y, Z direction			
Others				
MTBF	≥350Khrs(18-36/36-72VDC) ≥340Khrs(72-144VDC) MIL-HBDK-217F(25°C)			
Installation	Screw in plate or install in TS35 rail with the accessory			
Protection class	IP20			
Weight	About 0.4Kg			
Dimension	168*98*38mm			
	_			



Data	Description	Mode1
	MDS 100W 20A 5V 18-36VDC	MDS-100W05V2S
	MDS 100W 20A 5V 36-72VDC	MDS-100W05V3S
	MDS 100W 20A 5V 72-144VDC	MDS-100W05V4S
	MDS 102W 8.5A 12V 18-36VDC	MDS-100W12V2S
	MDS 102W 8.5A 12V 36-72VDC	MDS-100W12V3S
	MDS 102W 8.5A 12V 72-144VDC	MDS-100W12V4S
	MDS 100.8W 4.2A 24V 18-36VDC	MDS-100W24V2S
	MDS 100.8W 4.2A 24V 36-72VDC	MDS-100W24V3S
	MDS 100.8W 4.2A 24V 72-144VDC	MDS-100W24V4S
Accessory	Description	Model
Rail Pin	TS35 mouting accessory	MPS-F050C



