Switch Power Supply

Reliable, Convenient, Powerful Superb Technology of Industrial Power Supply

Product Selection Guide







ISO9001:2015





>>>About Mibbo

Mibbo is committed to researching and developing, manufacturing and selling industrial control products. To serve the midrange and high end equipment manufactures and system integrators. It pursues "Manufacturing products for QA Customers" to provide customers with high quality products and personalized solutions, and finally to achieve corporate value and customer value growth. Switch Power Supply is one of the major products in Mibbo. Providing high quality and reliable solutions in many fields. such as Industrial Automatic Control, intellectualization Control System, LED control logic and Household Appliances

>>>Catalog

Milbo Features	2
MPS Series NES	3-5
MGS Series LRS	6
MPD Series NED	7-8
MPT Series NET	9
MDS Series DC-DC	9
ELS Series	10
EIS Series	10
MDR Series	11-12
MGR Series	13
MQR Series	14
MFS Series	15
MNS Series	15
Dimensions	16-17
Engineering Data	18

When the system is unstable, do you think about your power equipment? Or, is it hard for you to choose the suitable power schemes? There are the good way for you to solve this problem rapidly.

In the control field, an efficient power supply is the foundation to support the stable operation of all equipment. Mibbo has been making power products for quality customers for many years. We have been deep in user application, comprehensive for different users targeted research high quality, innovative products.

Mibbo Features

Scen



 Convenient rail installation easy to load and unload



 Exterior patent, beautiful and generous, aluminum design



 Super group, thick material protect heat dissipation performance



 Large aperture installation of "three fulcrum"



 Unique cooling scheme, even in high temperature condition, can be determined to operate



 Configure terminal protection cover to ensure connection safety

Superb Technology



Strengthening earthquake resistance



 The application of superior grain to EM isolation in servo PLC control



 100% of the product is full of aging to ensure the quality of products.



 Three - proof treatment, even high dust can be reliable operation.



 The leading power supply design scheme, the integrated patch plug-in effective combination, fine manufacturing process, for the user to achieve refined quality



NTC+MOV Surge shock protection.



Applications

The Mibbo Industrial power supply is widely used in various kinds industrial and civil field, such as Petrochemical, Steel, Electricity, communications, automatic control equipment, the urban night scene, said lighting, charging pile, robot manipulator, textile machine, glass machinery, CNC, IOT, vacuum equipment cell-phone case and so on.













MPS Series







12W 16W 24W

■ Features

Superior ripple performance
Universal AC input / Full range
100% full load burn-in test
Protections:Over voltage /overload / short circuit
LED indicator for power on
Small volume with install accessories
Efficient and natural heat dissipation
Seismic protection
Surge protection
3 years warranty

Model No	MPS-012W	MPS-016W	MPS-024W			
Input Voltage		85-264VAC 120-370VDC				
Output Voltage Adjustment Range		±10%				
Overload Protection	Protection type	: Hiccup mode,recovers automatically after fault cond	ition is removed			
Over Voltage Protection	Protection type	: Hiccup mode,recovers automatically after fault cond	ition is removed			
Safety Standards	GB4943.1					
EMC Standards	EN55022(CISPR222)Class	EN55022(CISPR222)Class B;EN61000-4-2 , 3 , 4 , 5 , 6 , 8 , 11 , EN61000-6-1,light industry level , criteria A				
Withstand Voltage		I/P-O/P:2KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
Working Temperature		- 25~+60℃ (>50℃ Derating)				
Storage Humidity		10-95%RH				
Vibration	10-500H	10-500Hz,2G 10min./1 cycle,period for 60 min.each along X,Y,Z axes				
Dimension ^{Remark⊙} (W*H*D)(mm)	A001/78*48*21	A001/78*48*21 A002/96*58*25				
Weight Kg	about 0.07	about 0.1	about 0.12			

Remark(I): For the installation of the shell, please refer to the "Dimensions" Remark(I): For more technical specifications, please ask the business department for "technical specifications"

■ 12W				
Model No.	Output	Tol.	R&N	Effi.
MPS-012W03VFB	7.2A 3.3V	±2%	25mV	80%
MPS-012W05VFB	2.4A 5V	±2%	25mV	80%
MPS-012W12VFB	1A 12V	±1%	30mV	82%
MPS-012W15VFB	0.8A 15V	±1%	35mV	82%
MPS-012W24VFB	0.5A 24V	±1%	40mV	83%
■ 24W				
Model No.	Output	Tol.	R&N	Effi.
MPS-024W03VFB	4.5A 3.3V	±2%	25mV	80%
MPS-024W05VFB	4A 5V	±2%	25mV	80%
MPS-024W12VFB	2A 12V	±1%	25mV	83%
MPS-024W15VFB	1.6A 15V	±1%	35mV	84%
MPS-024W24VFB	1.0A 24V	±1%	35mV	86%
MPS-024W48VFB	0.5A 48V	±1%	40mV	86%

■ 16W				
Model No.	Output	Tol.	R&N	Effi.
MPS-016W12VFB	1.4A 12V	±1%	120mV	75%
MPS-016W15VFB	1.1A 15V	±1%	120mV	77%
MPS-016W24VFB	0.7A 24V	+1%	120mV	82%









35/50/75W

100W 150W□1S 200W□1S

350W□1S

■ Features

Superior ripple performance
100% full load burn-in test
Protections: Over voltage /overload / short circuit
LED indicator for power on
Optional rail mounting bracket.
Can be installed on DIN rail TS-35
Efficient and natural heat dissipation
Forced air cooling by built-in fan (350W)
Seismic protection
Over temperature protection(200 / 350W)
"Three pivot points" M4 large caliber installation
"Three - proof" treatment, suitable for severe environment
The terminals are covered with protective cover
All aluminum case
Surge protection
3 years warranty

Model No	MPS-035W	MPS-050W	MPS-075W	MPS-100W	MPS-150W□1S	MPS-200W□1S	MPS-350W□1S
Input Voltage		85-264VAC	120-370VDC	1	17	76-264VAC 250-370V	DC .
Output Voltage Adjustment Range				±10%	-		
Overload Protection	Protect	ion type: Hiccup mode,	recovers automatically	after fault condition is	removed	Protection type: Constar automatically after fault	t current limiting,recovers
Over Voltage Protection	Protect	Protection type: Hiccup mode, recovers automatically after fault condition is removed					down o/p voltage, er
Over temperature protection		-					tage,recovers mperature goes dowr
Safety Standards			GB4	1943.1			
EMC Standards	E	N55022(CISPR222)Cla	ass B;EN61000-4-2,3	, 4 , 5 , 6 , 8 , 11 , EN	61000-6-1, light industry	level, criteria A	
Withstand Voltage			I/P-O/P:3KVA	AC I/P-FG:1.5KVAC O	/P-FG:0.5KVAC		
Working Temperature		- 25~+60°C (>50°C Derating)				- 25~+50°C (> 40°C Derating)	- 25~+60°C (>50°C Derating)
Storage Humidity	10-95%RH						
Vibration			10-500H	z,2G 10min./1 cycle,¡	period for 60 min.each	along X,Y,Z axes	
Dimension ^{Remark⊕} (W*H*D)(mm)		A003/118*90*38		A004/1	68*98*38	A005/22	0*115*50
Weight Kg	abou	t 0.29	about 0.32	about 0.45	about 0.49	about 0.79	about 0.87

Remark(2): For more technical specifications, please ask the business department for "technical specifications"

	35W				
	Model No.	Output	ToI.	R&N	Effi.
	MPS-035W03VFS	7.2A 3.3V	±2%	80mV	78%
	MPS-035W05VFS	7.0A 5V	±2%	80mV	80%
	MPS-035W12VFS	2.9A 12V	±1%	120mV	83%
	MPS-035W15VFS	2.3A 15V	±1%	150mV	84%
	MPS-035W24VFS	1.46A 24V	±1%	200mV	86%
	MPS-035W48VFS	0.73A 48V	±1%	200mV	86%
	75W				
	75W Model No.	Output	Tol.	R&N	Effi.
		Output 14A 5V	Tol. ±2%	R&N 80mV	Effi. 80%
	Model No.	•			
•	Model No. MPS-075W05VFS	14A 5V	±2%	80mV	80%
	Model No. MPS-075W05VFS MPS-075W07VFS	14A 5V 10A 7.5V	±2% ±1%	80mV 120mV	80% 80%
•	Model No. MPS-075W05VFS MPS-075W07VFS MPS-075W12VFS	14A 5V 10A 7.5V 6.2A 12V	±2% ±1% ±1%	80mV 120mV 120mV	80% 80% 83%
•	Model No. MPS-075W05VFS MPS-075W07VFS MPS-075W12VFS MPS-075W15VFS	14A 5V 10A 7.5V 6.2A 12V 5A 15V	±2% ±1% ±1% ±1%	80mV 120mV 120mV 150mV	80% 80% 83% 84%

■ 150W□1S				
Model No.	Output	Tol.	R&N	Effi.
MPS-150W05V1S	26A 5V	±1%	80mV	80%
MPS-150W07V1S	17.4A 7.5V	±1%	120mV	80%
MPS-150W09V1S	16.7A 09V	±1%	120mV	80%
MPS-150W12V1S	12.5A 12V	±1%	150mV	83%
MPS-150W15V1S	10A 15V	±1%	200mV	84%
MPS-150W24V1S	6.3A 24V	±1%	200mV	86%
MPS-150W36V1S	4.2A 36V	±1%	130mV	86%
MPS-150W48V1S	3.2A 48V	±1%	240mV	86%
■ 350W□1S				
Model No.	Output	Tol.	R&N	Effi.
MPS-350W03V1S	004.0014			
	60A 3.3V	±2%	150mV	74%
MPS-350W05V1S	60A 5V	±2% ±2%	150mV 150mV	74% 78%
MPS-350W05V1S MPS-350W07V1S				
	60A 5V	±2%	150mV	78%
MPS-350W07V1S	60A 5V 46.7A 7.5V	±2% ±1%	150mV 150mV	78% 80%
MPS-350W07V1S MPS-350W12V1S	60A 5V 46.7A 7.5V 29.2A 12V	±2% ±1% ±1%	150mV 150mV 150mV	78% 80% 84%
MPS-350W07V1S MPS-350W12V1S MPS-350W15V1S	60A 5V 46.7A 7.5V 29.2A 12V 23.4A 15V	±2% ±1% ±1% ±1%	150mV 150mV 150mV 150mV	78% 80% 84% 85%
MPS-350W07V1S MPS-350W12V1S MPS-350W15V1S MPS-350W24V1S	60A 5V 46.7A 7.5V 29.2A 12V 23.4A 15V 14.6A 24V	±2% ±1% ±1% ±1%	150mV 150mV 150mV 150mV 150mV	78% 80% 84% 85% 87%

■ 50W				
Model No.	Output	Tol.	R&N	Effi.
MPS-050W03VFS	10A 3.3V	±2%	80mV	78%
MPS-050W05VFS	10A 5V	±2%	80mV	80%
MPS-050W12VFS	4.2A 12V	±1%	120mV	83%
MPS-050W15VFS	3.4A 15V	±1%	150mV	84%
MPS-050W24VFS	2.1A 24V	±1%	200mV	86%
MPS-050W48VFS	1.1A 48V	±1%	240mV	86%
■ 100W				
Model No.	Output	Tol.	R&N	Effi.
MPS-100W03VFS	20A 3.3V	±2%	80mV	78%
MPS-100W05VFS	20.0A 5V	±2%	80mV	78%
MPS-100W07VFS	13.4A 7.5V	±1%	120mV	78%
MPS-100W09VFS	11.2A 09V	±1%	120mV	85%
MPS-100W12VFS	8.4A 12V	±1%	120mV	85%
MPS-100W15VFS	6.7A 15V	±1%	120mV	86%
MPS-100W24VFS	4.2A 24V	±1%	130mV	88%
MPS-100W36VFS	2.8A 36V	±1%	130mV	88%
MPS-100W48VFS	2.1A 48V	±1%	150mV	88%
■ 200W□1S				
Model No.	Output	Tol.	R&N	Effi.
MPS-200W03V1S	40A 3.3V	±2%	150mV	78%
MPS-200W05V1S	40.0A 5V	±2%	150mV	78%
MPS-200W07V1S	26.7A 7.5V	±1%	150mV	78%
MPS-200W12V1S	16.7A 12V	±1%	150mV	85%
MPS-200W15V1S	13.4A 15V	±1%	150mV	85%
MPS-200W24V1S	8.4A 24V	±1%	150mV	86%
MPS-200W27V1S	7.5A 27V	±1%	200mV	88%
MPS-200W36V1S	5.6A 36V	±1%	240mV	88%
MPS-200W48V1S	4.2A 48V	±1%	240mV	88%



150W□SS 600W□SS 200W□SS 350W□SS 450W□SS

■ Features

Superior ripple performance
Input 115 / 230VAC, selectable by switchInput
100% full load burn-in test
Protections: Over voltage /overload / short circuit
3 years warranty (2 years warranty :450W / 600W)
LED indicator for power on
Optional rail mounting bracket.
Can be installed on DIN rail TS-35
Efficient and natural heat dissipation
Forced air cooling by built-in fan (350 / 450W)
Seismic protection
"Three pivot points" M4 large caliber installation
(450 / 600W Adopt mounting plate)
"Three - proof" treatment, suitable for severe environment
The terminals are covered with protective cover
All aluminum case
compensating output voltage function (450 / 600W)
Over temperature protection (200 / 350 / 450 / 600W)
Surge protection

Model No	MPS-150W□SS	MPS-200W□SS	MPS-350W□SS	MPS-450W□SS	MPS-600W□SS	
Input Voltage	90-132VAC或180-264VAC (Dip Switch Handover) 254-370VDC					
Output Voltage Adjustment Range	±10%					
Overload Protection	Protection type: Hiccup mode, recovers automatically after fault condition is removed	otection type: Hiccup mode, recovers tomatically after fault condition is removed Protection type: Constant current limiting, recovers automatically after fault condition is removed Protection type: shut down o/p voltage, re-power on to recover on to recover on the recover of the recove				
Over Voltage Protection		Protection type	e: shut down o/p voltage,re-powe	r on to recover		
Over temperature protection	-	Protection type: shut down o/p voltage, recovers automatically after temperarature goes down				
Safety Standards		GB4943.1				
EMC Standards	EN550	022(CISPR222)Class B;EN6100	0-4-2 , 3 , 4 , 5 , 6 , 8 , 11 , EN6	1000-6-1,light industry level, cri	iteria A	
Withstand Voltage		I/P-O/P:	BKVAC I/P-FG:1.5KVAC O/P-FG	:0.5KVAC		
Working Temperature	- 25∼+60℃ (>50℃ Derating)	- 25 ~ +50 °C (> 40 °C Derating)		- 25~+60°C (>50°C Derating)		
Storage Humidity			10-95%RH			
Vibration		10-500Hz,2G 10mi	n./1 cycle,period for 60 min.ea	ch along X,Y,Z axes		
Dimension ^{Remark⊕} (W*H*D)(mm)	A004/168*98*38 A005/220*115*50 A006/225*115*50 A007/260*130*63.			A007/260*130*63.5mm		
Weight Kg	about 0.49	about 0.79	about 0.87	about 1.3	about 1.5	

Remark(1): For the installation of the shell, please refer to the "Dimensions"

Remark(2): For more technical specifications, please ask the business department for "technical specifications."

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■ MPS-150W□S	S			
Model No.	Output	Tol.	R&N	Effi.
MPS-150W05VSS	26A 5V	±1%	80mV	85%
MPS-150W12VSS	12.5A 12V	±1%	120mV	85%
MPS-150W15VSS	10.0A 15V	±1%	120mV	85%
MPS-150W24VSS	6.3A 24V	±1%	120mV	86%
MPS-150W36VSS	4.2A 36V	±1%	130mV	86%
MPS-150W48VSS	3.2A 48V	±1%	200mV	88%
■ MPS-350W□S	S			
Model No.	Output	Tol.	R&N	Effi.
MPS-350W05VSS	60A 5V	±2%	150mV	82%
MPS-350W12VSS	29.2A 12V	±1%	150mV	85%
MPS-350W24VSS	14.6A 24V	±1%	150mV	87%
MPS-350W36VSS	9.8A 36V	±1%	240mV	88%
MPS-350W48VSS	7.3A 48V	±1%	240mV	88%

■ MPS-600W□SS	5			
Model No.	Output	Tol.	R&N	Effi.
MPS-600W05VSS	100A 5V	±2%	150mV	78%
MPS-600W12VSS	50A 12V	±1%	150mV	83%
MPS-600W15VSS	40A 15V	±1%	150mV	84%
MPS-600W24VSS	25A 24V	±1%	150mV	87%
MPS-600W27VSS	22.2A 27V	±1%	150mV	87%
MPS-600W36VSS	16.6A 36V	±1%	200mV	87%
MPS-600W48VSS	12.5A 48V	±1%	200mV	88%

■ MPS-200W□SS	5			
Model No.	Output	Tol.	R&N	Effi.
MPS-200W05VSS	40A 5V	±2%	150mV	85%
MPS-200W12VSS	16.7A 12V	±1%	150mV	85%
MPS-200W24VSS	8.4A 24V	±1%	150mV	86%
MPS-200W36VSS	5.6A 36V	±1%	240mV	86%
MPS-200W48VSS	4.2A 48V	±1%	240mV	88%

■ MPS-450W□S	S			
Model No.	Output	Tol.	R&N	Effi.
MPS-450W03VSS	75A 3.3V	±3%	120mV	76%
MPS-450W05VSS	75A 5V	±3%	120mV	78%
MPS-450W12VSS	37.5A 12V	±1%	140mV	85%
MPS-450W15VSS	30A 15V	±1%	140mV	86%
MPS-450W24VSS	18.8A 24V	±1%	150mV	86%
MPS-450W27VSS	16.7A 27V	±1%	150mV	86%
MPS-450W36VSS	12.5A 36V	±1%	180mV	87%
MPS-450W48VSS	9 4A 48V	+1%	180mV	87%

MGS Series









35/50/75/100W

150 W

200 W

350 W

■ Features

Features
Superior ripple performance
Input 220/AC
100% full load burn-in test
Protections: Over voltage /overload / short circuit
Over temperature protection (200 / 350W)
LED indicator for power on
Optional rail mounting bracket.
Can be installed on DIN rail TS-35
Efficient and natural heat dissipation
Seismic protection
"Three pivot points" M4 large caliber installation
The terminals are covered with protective cover
All aluminum case
Surge protection
2 years warranty

MGS-035W	MGS-050W	MGS-075W 17 44A/230VAC	MGS-100W 76-264VAC 250-370VE	MGS-150W	MGS-200W	MGS-350W
Protection			76-264VAC 250-370VI)C		
Protection		44A/230VAC				
Protection					55A/230VAC	60A/230VAC
	type: Hiccup mode, i	ecovers automatically	after fault condition is	removed	Protection type: Constant or recovers automatically after	
Protection	type: Hiccup mode, i	ecovers automatically	after fault condition is	removed	Protection type: shut down on to recover	o/p voltage, re-power
		_			Protection type: shut down automatically after tempera	
		I/P-O/P:3KVA	AC I/P-FG:1.5KVAC O/F	P-FG:0.5KVAC		
	- 25	~+60°C (>50°C Derati	ing)		- 25~+50℃ (> 40℃ Derating)	- 25~+60°C (>50°C Derating)
			10-95%RH			
	10	0-500Hz,2G 10min./1	cycle,period for 60 mi	n.each along X,Y,Z ax	es	
	A003/11	A004/168*98*38	A005/220	0*115*50		
about	0.29	abou	t 0.32	about 0.49	about 0.79	about 0.87
	Protection	Protection type: Hiccup mode, I - 25- 10 A003/11 about 0.29	Protection type: Hiccup mode, recovers automatically I/P-O/P:3KVA - 25~+60°C (>50°C Derat 10-500Hz,2G 10min./1 A003/118*90*38	Protection type: Hiccup mode, recovers automatically after fault condition is I/P-O/P:3KVAC I/P-FG:1.5KVAC O/F - 25~+60°C (>50°C Derating) 10-95%RH 10-500Hz,2G 10min./1 cycle,period for 60 mi A003/118*90*38	10-95%RH 10-500Hz,2G 10min./1 cycle,period for 60 min.each along X,Y,Z ax A003/118*90*38 A004/168*98*38	Protection type: Hiccup mode, recovers automatically after fault condition is removed Protection type: Hiccup mode, recovers automatically after fault condition is removed Protection type: shut down automatically after tempera I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC - 25~+60°C (>50°C Derating) 10-95%RH 10-500Hz,2G 10min./1 cycle, period for 60 min.each along X,Y,Z axes A003/118*90*38 A004/168*98*38 A005/220

Remark(2): For the installation of the shell, please refer to the "Dimensions" Remark(2): For more technical specifications, please ask the business department for "technical specifications"

35W				
Model No.	Output	Tol.	R&N	Effi.
MGS-035W12V1S	2.9A 12V	±1%	60mV	83%
MGS-035W24V1S	1.46A 24V	±1%	70mV	86%
75W				
Model No.	Output	Tol.	R&N	Effi.
MGS-075W12V1S	6.2A 12V	±1%	70mV	83%
MGS-075W24V1S	3.13A 24V	±1%	80mV	86%
150W				
13000				
Model No.	Output	Tol.	R&N	Effi.
	Output 12.5A 12V	Tol.	R&N 90mV	Effi. 83%
Model No.	·			
Model No. MGS-150W12V1S	12.5A 12V	±1%	90mV	83%
Model No. MGS-150W12V1S MGS-150W24V1S	12.5A 12V	±1%	90mV	83%
Model No. MGS-150W12V1S MGS-150W24V1S	12.5A 12V 6.3A 24V	±1% ±1%	90mV 100mV	83% 86%
Model No. MGS-150W12V1S MGS-150W24V1S 350W Model No.	12.5A 12V 6.3A 24V Output	±1% ±1%	90mV 100mV	83% 86% Effi.

■ 50W				
Model No.	Output	Tol.	R&N	Effi.
MGS-050W12V1S	4.2A 12V	±1%	60mV	83%
MGS-050W24V1S	2.1A 24V	±1%	70mV	86%
■ 100W				
Model No.	Output	Tol.	R&N	Effi.
MGS-100W12V1S	8.4A 12V	±1%	80mV	85%
MGS-100W24V1S	4.2A 24V	±1%	100mV	88%
200W				
Model No.	Output	Tol.	R&N	Effi.
MGS-200W12V1S	16.7A 12V	±1%	120mV	85%
MGS-200W24V1S	8.4A 24V	±1%	130mV	86%

MPD...D Series







35/50/75W 100W 150W

■ Features

Teatures

100% full load burn-in test
Protections:Over voltage /overload / short circuit
LED indicator for power on
Optional rail mounting bracket.
Can be installed on DIN rail TS-35
Seismic protection
"Three pivot points" M4 large caliber installation
The terminals are covered with protective cover
All aluminum case
Surge protection
2 years warranty

Model No	MPD-035W□D	MPD-050WD	MPD-075WD	MPD-100W□D	MPD-150WDD
Input Voltage		85-264VAC 120-370VDC		176-264VAC	250-370VDC
Output Voltage Adjustment Range		Ch2: 12V	:10.8-13.2; 24V:21.4-28.8; 48V	:43.2-57.6	
start, up time	500ms 30ms/230VAC 1200ms 30ms/115VAC(Full-load)			1000ms 30ms/2	30VAC(Full-load)
Hold time	20ms	20ms/230VAC 16ms/115VAC(Full-load) 20ms/230VAC(Full-load)			
Overload Protection		Protection type: Hiccup m	ode, recovers automatically afte	er fault condition is removed	
Over Voltage Protection		Protection type: Hiccup m	ode, recovers automatically afte	er fault condition is removed	
Safety Standards			GB4943.1		
EMC Standards	EN55022	(CISPR222)Class B;EN61000-4	4-2 , 3 , 4 , 5 , 6 , 8 , 11 , EN610	000-6-1,light industry level, crite	eria A
Withstand Voltage		I/P-O/P:	3KVAC I/P-FG:1.5KVAC O/P-FG	G:0.5KVAC	
Working Temperature			- 25~+60°C (>50°C Derating)	
Vibration		10-500Hz,2G 10m	in./1 cycle,period for 60 min.e.	ach along X,Y,Z axes	
Dimension ^{Remark©} (W*H*D)(mm)		A012/118*90*38		A004/16	58*98*38
Weight Kg	about 0.29	abou	ut 0.35	about 0.45	about 0.51

Remark①: For the installation of the shell, please refer to the "Dimensions" Remark②: For more technical specifications, please ask the business department for "technical specifications"

■ 35W						
Model No.	Output	To	ol.	R	&N	Effi.
Woder No.	Output	Ch1	Ch2	Ch1	Ch2	EIII.
MPD-035WAFSD	2A/5V 2.1A/12V	±2%	±6%	50mV	60mV	78%
MPD-035WBFSD	2A/5V 1.1A/24V	±2%	±6%	50mV	60mV	80%
MPD-035WCFSD	1A/12V 1A/24V	±2%	±6%	50mV	60mV	83%
MPD-035WDFSD	2A/5V 0.55A/48V	±2%	±6%	50mV	60mV	84%
MPD-035WFFSD	1A/12V 0.5A/48V	±2%	±6%	50mV	60mV	86%
■ 75W						
Model No.	Output	To	ol.	R	&N	Effi.
Wodel No.	Output	Ch1	Ch2	Ch1	Ch2	EIII.
MPD-075WAFSD	2A/5V 4.2A/12V	±2%	±6%	60mV	60mV	78%
MPD-075WBFSD	2A/5V 2.8A/24V	±2%	±6%	60mV	80mV	80%
MPD-075WCFSD	1A/12V 2.7A/24V	±2%	±6%	70mV	80mV	83%
MPD-075WDFSD	2A/5V 1.4A/48V	±2%	±6%	60mV	80mV	84%
MPD-075WFFSD	1A/12V 1.4A/48V	±2%	±6%	70mV	80mV	86%
■ 150W						
Model No.	Output	To	ol.	R	&N	Effi.
Wodel No.	Output	Ch1	Ch2	Ch1	Ch2	EIII.
MPD-150WA1SD	2A/5V 11.7A/12V	±2%	±6%	80mV	120mV	80%
MPD-150WB1SD	2A/5V 5.9A/24V	±2%	±8%	80mV	120mV	83%
MPD-150WC1SD	1A/12V 5.8A/24V	±2%	±8%	80mV	120mV	83%
MPD-150WD1SD	2A/5V 3A/48V	±2%	±10%	80mV	140mV	84%
MPD-150WF1SD	1A/12V 2.9A/48V	±2%	±10%	80mV	140mV	86%
MPD-150WJ1SD	1A/12V 3.8A/36V	±2%	±10%	80mV	140mV	85%

		_				
Model No.	Output	10	ol.	R	&N	Effi.
		Ch1	Ch2	Ch1	Ch2	
MPD-050WAFSD	2A/5V 3.4A/12V	±2%	±6%	60mV	60mV	78%
MPD-050WBFSD	2A/5V 1.7A/24V	±2%	±6%	60mV	80mV	80%
MPD-050WCFSD	1A/12V 1.6A/24V	±2%	±6%	60mV	80mV	83%
MPD-050WDFSD	2A/5V 0.85A/48V	±2%	±6%	60mV	80mV	84%
MPD-050WFFSD	1A/12V 0.8A/48V	±2%	±6%	60mV	80mV	86%
100W						
	Outrut	To	ol.	Ri	&N	F-44:
Model No.	Output	To Ch1	ol. Ch2	Ri Ch1	&N Ch2	Effi.
	Output 2A/5V 7.5A/12V					Effi.
Model No.		Ch1	Ch2	Ch1	Ch2	
Model No.	2A/5V 7.5A/12V	Ch1 ±2%	Ch2 ±6%	Ch1 80mV	Ch2 100mV	80%
Model No. MPD-100WA1SD MPD-100WB1SD	2A/5V 7.5A/12V 2A/5V 3.8A/24V	Ch1 ±2% ±2%	Ch2 ±6% ±8%	Ch1 80mV 80mV	Ch2 100mV 100mV	80% 83%









50/75W 100/130W 200W 300W

■ Features

Features

100% full load burn-in test
Protections: Over voltage /overload / short circuit
Over temperature protection (200 / 350W)
LED indicator for power on
Optional rail mounting bracket.
Can be installed on DIN rail TS-35
Built-in Fan, Twin Coag 300W
Seismic protection
"Three pivot points" M4 large caliber installation
"Three - proof"treatment, suitable for severe environment
The terminals are covered with protective cover
All aluminum case
Surge protection
2 years warranty

Model No	MPD-050W□A	MPD-075W□A	MPD-100W□A	MPD-130W□A	MPD-200W□A	MPD-300W□A	
Input Voltage	85-264VAC	120-370VDC		176-264VAC	250-370VDC		
Output Voltage Adjustment Range	Ch1:5	5V : 4.75-5.5V ; 12V : 11.7	-12.2V	Ch1 : 5V : 4.75-5.5V ; 12V : 11.4-13.2V	Ch1 : 5V : 4.75-5.5	V ; 12V : 11.7-12.2V	
start, up time	500ms 30ms/230VAC 1200ms 30ms/115VAC(Full-load)	500ms 50ms/230VAC 1200ms 50ms/115VAC(Full-load)	2000ms 30ms/230VAC (Full-load)	500ms 20ms/230VAC (Full-load)	1000ms 50ms/2	230VAC(Full-load)	
Hold time	50ms/230VAC 10ms/115VAC (Full-load)	20ms/230VAC 16ms/115VAC (Full-load)	20ms/230VAC(Full-load)	25ms/230VAC(Full-load)	20ms/230V	'AC(Full-load)	
Overload Protection	Protection type:	Hiccup mode, recovers au	tomatically after fault con	dition is removed	Protection type: shut down o/p	voltage, re-power on to recove	
Over Voltage Protection	Protection type:	Hiccup mode, recovers au	tomatically after fault con	dition is removed	Protection type: shut down o/p voltage, re-power on to recov		
Over temperature protection		-	-		Temperature intelligent protection recovers automatically after tem	n, nperarature goes down	
Safety Standards			GB49	943.1			
EMC Standards	EN5	5022(CISPR222)Class B;E	N61000-4-2 , 3 , 4 , 5 , 6	, 8 , 11 , EN61000-6-1,lig	ght industry level, criteria A		
Withstand Voltage			I/P-O/P:3KVAC I/P-FG:1	.5KVAC O/P-FG:0.5KVAC			
Working Temperature	- 2	5~+60°C (>50°C Derating	g)	- 25∼+70°C (> 45°C Derating)	- 25~+50℃ (>40℃ Derating)	- 25 ~ +60 ℃ (> 50 ℃ Derating)	
Storage Humidity			10-9	5%RH			
Vibration		10-500H	z,2G 10min./1 cycle,peric	d for 60 min.each along	X,Y,Z axes		
Dimension ^{Remark®} (W*H*D)(mm)	A012/11	8*90*38	A005/16	58*98*38	A006/22	0*115*50	
Weight Kg	abou	t 0.35	about 0.45	about 0.7	about 0.85	about 0.8	

Remark(2): For more technical specifications, please ask the business department for "technical specifications"

MPD-200WD1SA

MPD-200WF1SA

MPD-200WG1SA

MPD-200WH1SA

MPD-200WI1SA

50W						
		To	ol.	R	& N	
Model No.	Output	Ch1	Ch2	Ch1	Ch2	Effi.
MPD-050WAFSA	5.2A/5V 2.0A/12V	±2%	±6%	80mV	100mV	80%
MPD-050WBFSA	5.2A/5V 1.0A/24V	±2%	±8%	80mV	120mV	83%
MPD-050WCFSA	1.0A/12V 1.6A/24V	±2%	±8%	100mV	120mV	83%
MPD-050WDFSA	5.2A/5V 0.5A/48V	±2%	±10%	80mV	160mV	84%
MPD-050WFFSA	2.2A/12V 0.5A/48V	±2%	±10%	100mV	160mV	84%
MPD-050WGFSA	5.0A/-5V 5.0A/+5V	±2%	±2%	80mV	80mV	80%
MPD-050WHFSA	2.1A/-12V 2.1A/+12V	±2%	±6%	100mV	100mV	82%
MPD-050WIFSA	1.7A/-15V 1.7A/+15V	±2%	±6%	100mV	100mV	82%
■ 100W						
MadalNa	Outrut	To	ol.	R	&N	E44:
Model No.	Output	Ch1	Ch2	Ch1	Ch2	Effi.
MPD-100WA1SA	10.2A/5V 4.1A/12V	±2%	±6%	60mV	80mV	80%
MPD-100WB1SA	5.3A/5V 3.1A/24V	±2%	±8%	60mV	80mV	83%
MPD-100WC1SA	2.2A/12V 3.1A/24V	±2%	±8%	80mV	80mV	83%
MPD-100WD1SA	5.4A/5V 1.5A/48V	±2%	±10%	60mV	100mV	84%
MPD-100WF1SA	2.0A/12V 1.6A/48V	±2%	±10%	80mV	100mV	84%
MPD-100WG1SA	10.0A/-5V 10.0A/+5V	±2%	±2%	60mV	60mV	80%
MPD-100WH1SA	4.2A/-12V 4.2A/+12V	±2%	±6%	60mV	60mV	82%
MPD-100WI1SA	3.3A/-15V 3.3A/+15V	±2%	±6%	60mV	60mV	82%
200W						
Model No.	Output	To	ol.	R	&N	Effi.
widdel No.	Output	Ch1	Ch2	Ch1	Ch2	EIII.
MPD-200WA1SA	10A/5V 8.3A/12V	±2%	±6%	80mV	100mV	80%
MPD-200WB1SA	10A/5V 6.25A/24V	±2%	±6%	80mV	120mV	83%
MPD-200WC1SA	9A/12V 4A/24V	±2%	±6%	120mV	120mV	83%

±2%

±2%

6.6A/-15V 6.6A/+15V ±2% ±6% 150mV 150mV

±6%

±6%

±6%

80mV 160mV

100mV 160mV

80mV 80mV

±6% 120mV 120mV

84%

84%

80%

82%

82%

10A/5V 3.2A/48V

15A/-5V 15A/+5V

8.3A/12V 2A/48V ±2%

8.3/-12V 8.3A/+12V ±2%

Model No	Output	Т	ΓoΙ.	R	&N	Effi
Model No.	Output	Ch1	Ch2	Ch1	Ch2	E111
MPD-075WAFSA	7.2A/5V 2A/12V	±2%	±6%	60mV	80mV	80%
MPD-075WBFSA	5.4A/5V 2A/24V	±2%	±8%	60mV	80mV	83%
MPD-075WCFSA	2A/12V 2.1A/24V	±2%	±8%	60mV	80mV	83%
MPD-075WDFSA	5.4A/5V 1A/48V	±2%	±10%	60mV	100mV	84%
MPD-075WFFSA	2.2A/12V 1A/48V	±2%	±10%	60mV	100mV	84%
MPD-075WGFSA	7.5A/-5V 7.5A/+5V	±2%	±2%	60mV	60mV	80%
MPD-075WHFSA	3.1A/-12V 3.1A/+12V	±2%	±6%	60mV	60mV	82%
MPD-075WIFSA	2.5A/-15V 2.5A/+15V	±2%	±6%	60mV	60mV	82%
130W						
Model No.	Output	T	Tol. R&N		L ee:	
woder No.	Output	Ch1	Ch2	Ch1	Ch2	Effi
MPD-130WA1SA	9A/5V 5A/12V	±5%	±7%	80mV	120mV	81%
MPD-130WB1SA	4.6A/5V 4.6A/24V	±5%	±7%	80mV	120mV	85%
MPD-130WC1SA	3.7A/12V 3.7A/24V	±2%	8%,-5%	120mV	200mV	85%

■ 300W						
Model No.	Output	Т	ol.	R	&N	Effi.
WOODI NO.	Output	Ch1	Ch2	Ch1	Ch2	L
MPD-300WA1SA	26A/5V 10A/12V	±3%	±6%	80mV	100mV	80%
MPD-300WB1SA	2A/5V 1.7A/24V	±3%	±8%	80mV	120mV	83%
MPD-300WC1SA	8.4A/12V 8.3A/24V	±3%	±8%	100mV	120mV	83%
MPD-300WD1SA	12A/5V 5A/48V	±3%	±10%	80mV	160mV	84%
MPD-300WF1SA	5A/12V 5A/48V	±3%	±10%	100mV	160mV	84%
MPD-300WG1SA	25A/-5V 25A/+5V	±3%	±2%	80mV	80mV	80%
MPD-300WH1SA	12.5A/-12V 12.5A/+12V	±3%	±6%	100mV	100mV	82%
MPD-300WI1SA	10A/-15V 10A/+15V	±3%	±6%	100mV	100mV	82%





■ Features

Universal AC input / Full range
100% full load burn-in test
Protections:Over voltage /overload / short circuit
LED indicator for power on
Optional rail mounting bracket.
Can be installed on DIN rail TS-35
Efficient and natural heat dissipation
Seismic protection
"Three pivot points" M4 large caliber installation
The terminals are covered with protective cover
All aluminum case
Surge protection
3 years warranty

50W 75W

Model No	MPT-050W	MPT-075W			
Input Voltage	85-264VAC 120-370VDC				
Surge current (max)	22A/115VAC	44A/230VAC			
Overload Protection	Protection type: Hiccup mode, recovers at	tomatically after fault condition is removed			
Over Voltage Protection	Protection type: Hiccup mode, recovers au	tomatically after fault condition is removed			
Safety Standards	GB4943.1				
EMC Standards	EN55022(CISPR222)Class B;EN61000-4-2 , 3 , 4 , 5 , 6 , 8 , 11 , EN61000-6-1, light industry level , criteria A				
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1	.5KVAC O/P-FG:0.5KVAC			
Working Temperature	- 25~+60°C (>50°C Derating)	- 25 ~ +60 ℃ (> 30 ℃ Derating)			
Storage Humidity	10-9	5%RH			
Vibration	10-500Hz,2G 10min./1 cycle,perio	od for 60 min.each along X,Y,Z axes			
Dimension ^{Remark®} (W*H*D)(mm)	A008/118*90*38	A009/168*98*38			
Weight Kg	about 0.28	about 0.45			

Remark@: For the installation of the shell, please refer to the "Dimensions" Remark@: For more technical specifications, please ask the business department for "technical specifications"

■ 50W						
Model No.	Output		Tol.		R&N	Effi.
woder No.	Output	Ch1	Ch2	Ch3	Ch1 Ch2 Ch3	E111.
MPT-050WPFS	4A/5V 2.0A/12V 0.5A/-5V	±2%	±6%	±5%	80mV 120mV 120mV	80%
MPT-050WQFS	4A/5V 2.0A/12V 0.5A/-12V	±2%	±6%	±5%	80mV 120mV 120mV	83%
MPT-050WRFS	4A/5V 1.5A/15V 0.5A/-15V	±2%	±8%	±5%	80mV 150mV 150mV	83%
MPT-050WSFS	3A/5V 1.0A/24V 1.0A/12V	±2%	±8%	±6%	80mV 200mV 120mV	83%

■ 75W					
Model No.	Output	Tol.		R&N	Effi.
Model No.	Chi	. Ch2	Ch3	Ch1 Ch2 Ch3	E111.
MPT-075WPFS	6A/5V 3.0A/12V 0.5A/-5V ±2%	±6%	±5%	80mV 120mV 120mV	77%
MPT-075WQFS	5A/5V 2.8A/12V 0.5A/-12V ±2%	±6%	±5%	80mV 120mV 120mV	78%
MPT-075WRFS	6A/5V 2.3A/15V 0.5A/-15V ±29	±8%	±5%	80mV 150mV150mV	78%
MPT-075WSES	54/5V 1 54/24V 1 04/12V +29	+8%	+6%	90mV 200mV 120mV	80%

MDS Series





■ Features

Superior ripple performance
2:1 wide range input
100% full load burn-in test
Protections: Over voltage /overload / short circuit
LED indicator for power on
Optional rail mounting bracket. Can be installed on DIN rail TS-35
Efficient and natural heat dissipation
Seismic protection
"Three pivot points" M4 large caliber installation
The terminals are covered with protective cover
All aluminum case
2 years warranty

100W 50W

MDS-050W	MDS-100W		
1:9.2-18VDC 2:19-36VDC 3:36-72VDC	2:18-36VDC 3:36-72VDC 4:72-144VDC		
7A/12VDC 3A/24VDC 1.5A/48VDC	4.8A/24VDC 2.4A/48VDC 1.8A/96VDC		
Protection type: Hiccup mode, recovers au	tomatically after fault condition is removed		
Protection type: Hiccup mode, recovers au	tomatically after fault condition is removed		
1000ms 50ms(Full-load) 1000ms 50ms(When the input voltage is 72-144\			
10ms(Full-load)	20ms(When the input voltage is 72-144VDC only)		
I/P-O/P:1.5KVAC I/P-FG:1	L.5KVAC O/P-FG:0.5KVAC		
- 20-70℃ (>50℃ De	erating , View the Temperature Characteristic)		
10-95	5%RH		
10-500Hz,2G 10min./1 cycle,perio	d for 60 min.each along X,Y,Z axes		
A003/118*90*38	A004/168*98*38		
about 0.28	about 0.4		
	1:9.2-18VDC 2:19-36VDC 3:36-72VDC 7A/12VDC 3A/24VDC 1.5A/48VDC Protection type: Hiccup mode, recovers au Protection type: Hiccup mode, recovers au 1000ms 50ms(Full-load) 10ms(Full-load) I/P-O/P:1.5KVAC I/P-FG: - 20-70°C (> 50°C Dr 10-99 10-500Hz,2G 10min./1 cycle,perio A003/118*90*38		

Remark@: For the installation of the shell, please refer to the "Dimensions"
Remark@: For more technical specifications, please ask the business department for "technical specifications"

■ 50W				
Model No.	Output	Tol.	R&N	Effi.
MDS-050W05V1S	10A 5V 9.2-18VDC	±2%	80mV	78%
MDS-050W05V2S	10A 5V 18-36VDC	±2%	80mV	78%
MDS-050W05V3S	10A 5V 36-72VDC	±2%	80mV	78%
MDS-050W12V1S	4.1A 12V 9.2-18VDC	±1%	100mV	78%
MDS-050W12V2S	4.1A 12V 18-36VDC	±1%	100mV	78%
MDS-050W12V3S	4.1A 12V 36-72VDC	±1%	100mV	78%
MDS-050W24V1S	2.0A 24V 9.2-18VDC	±1%	120mV	83%
MDS-050W24V2S	2.0A 24V 18-36VDC	±1%	120mV	83%
MDS-050W24V3S	2 0A 24V 36-72VDC	+1%	120mV	83%

■ 100W				
Model No.	Output	Tol.	R&N	Effi.
MDS-100W05V2S	20A 5V 18-36VDC	±2%	80mV	78%
MDS-100W05V3S	20A 5V 36-72VDC	±2%	80mV	78%
MDS-100W05V4S	20A 5V 72-144VDC	±2%	80mV	78%
MDS-100W12V2S	8.3A 12V 18-36VDC	±1%	100mV	78%
MDS-100W12V3S	8.3A 12V 36-72VDC	±1%	100mV	78%
MDS-100W12V4S	8.3A 12V 72-144VDC	±1%	100mV	78%
MDS-100W24V2S	4.1A 24V 18-36VDC	±1%	120mV	80%
MDS-100W24V3S	4.1A 24V 36-72VDC	±1%	120mV	80%
MDS-100W24V4S	4.1A 24V 72-144VDC	±1%	120mV	80%

ELS Series





■ Features

100% full load burn-in test
100% full load burn-in test
Protections:Over voltage /overload / short circuit
LED indicator for power on
Efficient and natural heat dissipation
All aluminum case
Surge protection
Seismic protection
2 years warranty

60W 100W

Model No	ELS-060W	ELS-100W			
Input Voltage	176-264VAC	254-370VDC			
Input Current	0.8A/230VAC	2A/230VAC			
Surge current (max)	55A/2	30VAC			
Overload Protection	Protection type: Hiccup mode, recovers au	tomatically after fault condition is removed			
Over Voltage Protection	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
start, up time	1000ms 20ms/230VAC(Full-load)				
Hold time	20ms/230\	/AC(Full-load)			
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1	5KVAC O/P-FG:0.5KVAC			
Working Temperature	- 25~+60°C (> 50°C Derating , View the Temperature Characteristic)	- 25∼+60°C (>40°C Derating , View the Temperature Characteristic)			
Storage Humidity	10-95	5%RH			
Vibration	10-500Hz,2G 10min./1 cycle,perio	d for 60 min.each along X,Y,Z axes			
Dimension ^{Remark®} (W*H*D)(mm)	B001/160*45*32	001/160*45*32 B002/168*63*31			
Weight Kg	about 0.22	about 0.27			

Remark©: For the installation of the shell, please refer to the "Dimensions" Remark©: For more technical specifications, please ask the business department for "technical specifications"

■ 60W				
Model No.	Output	Tol.	R&N	Effi.
ELS-060W12V1B	5A 12V	±1%	120mV	85%
ELS-060W24V1B	2.5A 24V	±1%	120mV	87%

■ 100W				
Model No.	Output	Tol.	R&N	Effi.
ELS-100W12V1B	8.3A 12V	±1%	180mV	83%
ELS-100W24V1B	4.2A 24V	±1%	240mV	85%

EIS Series



350W

■ Features

Semi-potted and design against rain splash
Withstand 300VAC surge input for 5 sec
100% full load burn-in test
Protections:Over voltage /overload / short circuit
High-efficiency, High-reliability
Forced air cooling by built-in fan
"Three - proof"treatment, suitable for severe environment
3 years warranty

Model No	EIS-350W
Input Voltage	180-264VAC 254-370VDC
Input Current	4A/230VAC
Surge current (max)	90A/230VAC
Overload Protection	Protection type: Hiccup mode, recovers automatically after fault condition is removed
Over Voltage Protection	Protection type: shut down o/p voltage,re-power on to recover
Over temperature protection	Protection type: shut down o/p voltage, recovers automatically after temperarature goes down
start, up time	1500ms 50ms/230VAC(Full-load)
Hold time	20ms/230VAC(Full-load)
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
Working Temperature	- 30 \sim +60 $^{\circ}$ ($$ >40 $^{\circ}$ Derating , View the Temperature Characteristic)
Storage Humidity	10-95%RH
Vibration	10-500Hz,2G 10min./1 cycle,period for 60 min.each along X,Y,Z axes
Dimension ^{Remark®} (W*H*D)(mm)	C001/220.4*130*48
Weight Kg	about 0.9
Remark(1): For the installation of the	shell please refer to the "Dimensions"

Remark(): For the installation of the shell, please refer to the "Dimensions" Remark(2): For more technical specifications, please ask the business department for "technical specifications"

350W				
Model No.	Output	Tol.	R&N	Effi.
EIS-350W12V1S	29.2A 12V	±1%	150mV	87%
EIS-350W24V1S	14.6A 24V	±1%	150mV	89%

MDR Series











■ Features

Features
Superior ripple performance
100% full load burn-in test
Protections: Over voltage / overload / short circuit
LED indicator for power on
Compact Size, installed on DIN rail TS-35
Built-in active PFC function (1240C / 1360C)
"Three - proof" treatment, suitable for severe environment
The terminals are covered with protective cover
All metal case
Surge protection
Seismic protection
3 years warranty

24/48W 100W 150/240/360W 500 W 240C/360C

Model No	MDR1024	MDR1048	MDR1100	MDR1150	MDR1240	MDR1360	MDR1500	MDR1240-□C	MDR1360-□C
Input Voltage	100-	240VAC 120-370	OVDC	220-240VAC			115/230VAC	100-240VAC 120-370VDC	
Output Voltage Adjustment Range					±10%				
start, up time	300ms 10ms/23	0VAC(Full-load)	1300ms 13ms/2	30VAC(Full-load)	1300ms 15ms/ 230VAC(Full-load)	1500ms 15ms/ 230VAC(Full-load)	1300ms 15ms/ 230VAC(Full-load)	1200ms 15ms/2	30VAC(Full-load)
Hold time	30ms/230VA	AC(Full-load)	20ms/230VAC (Full-load)	30ms/230VA	AC(Full-load)	25ms/230VAC (Full-load)	20ms/230VAC (Full-load)	30ms/230VA	AC(Full-load)
Overload Protection			Protection type:	Hiccup mode, rec	overs automatica	lly after fault cor	dition is removed	i	
Over Voltage Protection			Protection type:	Hiccup mode, rec	overs automatica	lly after fault cor	dition is removed	i	
Safety Standards					GB4943.1				
EMC Standards		EN55022(CI	SPR222)Class B;E	N61000-4-2 , 3 ,	4,5,6,8,11,	EN61000-6-1,lig	ht industry level ,	criteria A	
Withstand Voltage				I/P-O/P:3KVAC	I/P-FG:1.5KVAC	D/P-FG:0.5KVAC			
Working Temperature	-40~+70℃(>	50℃ Derating)	- 40~+60°C (>	40℃ Derating)	- 40 ~ +70°C (> 50°C Derating)	- 40∼+60℃ (>	40℃ Derating)	- 40 ~ +70°C (> 50°C Derating)	- 40 ~ +60°C (> 40°C Derating)
Storage Humidity					5-95%RH				
Vibration	10-500Hz,2G 10min./1 cycle,period for 60 min.each along X,Y,Z axes								
(W*H*D)(mm)	90*4	5*74	110*56*121	110*75*121				110*100*121	
Weight Kg	abou	ut 0.2	about 0.55	about 0.65	about 0.7	about 0.75		about 1.2	

Remark(): For more technical specifications, please ask the business department for *technical specifications

24W				
Model No.	Output	Tol.	R&N	Effi.
MDR1024-05F	4A 05V	±1%	50mV	80%
MDR1024-12F	2A 12V	±1%	100mV	81%
MDR1024-24F	1A 24V	±1%	150mV	83%
■ 100W				
Model No.	Output	Tol.	R&N	Effi.
MDR1100-12F	8.3A 12V	±1%	100mV	80%
MDR1100-24F	4.2A 24V	±1%	150mV	81%
MDR1100-48F	2.1A 48V	±1%	200mV	83%
240W				
Model No.	Output	Tol.	R&N	Effi.
MDR1240-12S	20A 12V	±1%	100mV	80%
MDR1240-24S	10A 24V	±1%	150mV	82%
MDR1240-48S	5A 48V	±1%	250mV	84%
■ 500W				
Model No.	Output	Tol.	R&N	Effi.
MDR1500-24S	21A 24V	±1%	150mV	84%
MDR1500-48S	10.5A 48V	±1%	250mV	85%
240 C				
Model No.	Output	Tol.	R&N	Effi.
MDR1240-12C	20A 12V	±1%	100mV	80%
MDR1240-24C	10A 24V	±1%	150mV	81%
MDR1240-48C	5A 48V	±1%	250mV	83%

48W				
Model No.	Output	Tol.	R&N	Effi.
MDR1048-12F	4A 12V	±1%	100mV	80%
MDR1048-15F	3.2A 15V	±1%	150mV	81%
MDR1048-24F	2A 24V	±1%	150mV	83%
150W				
Model No.	Output	Tol.	R&N	Effi.
MDR1150-12F	12.5A 12V	±1%	100mV	80%
MDR1150-24F	6.3A 24V	±1%	150mV	82%
MDR1150-48F	3.2A 48V	±1%	250mV	83%
360W				
Model No.	Output	Tol.	R&N	Effi.
MDR1360-24S	15A 24V	±1%	150mV	82%
MDR1360-48S	7.5A 48V	±1%	250mV	83%

■ 360C				
Model No.	Output	Tol.	R&N	Effi.
MDR1360-12C	30A 12V	±1%	100mV	78%
MDR1360-24C	15A 24V	±1%	150mV	81%
MDR1360-48C	7.5A 48V	±1%	250mV	83%

MDR Series









■ Features

Features

RoHS Certification
100% full load burn-in test
Compact Size. installed on DIN rail TS-35
Protections: Over voltage /overload / short circuit
LED indicator for power on
Forced air cooling by built-in fan(240 / 500W)
Dual-voltage output
The terminals are covered with protective cover
All metal case
Small-volume, High-efficiency, High-reliability
3 years warranty

150/240W 500 W 60W 100W

Model No	MDR2060	MDR2100	MDR2150	MDR2240	MDR2500		
Input Voltage		100-240VAC 120-370VDC		115/2	5/230VAC		
Output Voltage Adjustment Range			±10%				
start, up time	300ms 10ms/230VAC(Full-load)	1:	300ms 13ms/230VAC(Full-load	d)	1300ms 15ms/230VAC(Full-load)		
Hold time			20ms/230VAC(Full-load)				
Overload Protection		Protection type: Hiccup mo	de, recovers automatically afte	r fault condition is removed			
Over Voltage Protection		Protection type: Hiccup mode, recovers automatically after fault condition is removed					
Safety Standards			GB4943.1				
EMC Standards	EN55022(CISPR222)Class B;EN61000-4	-2 , 3 , 4 , 5 , 6 , 8 , 11 , EN610	00-6-1,light industry level, crit	eria A		
Withstand Voltage		I/P-O/P:3	BKVAC I/P-FG:1.5KVAC O/P-FG	:0.5KVAC			
Working Temperature	- 40∼+70℃ (>5	0° Derating)		- 40~+60℃ (>40℃ Derating))		
Storage Humidity			5-95%RH				
Vibration		10-500Hz,2G 10mir	n./1 cycle,period for 60 min.ea	ch along X,Y,Z axes			
(W*H*D)(mm)	110*40*121	110*56*121	110*7	5*121	110*100*121		
Weight Kg	about 0.45	about 0.55	about 0.65	about 0.7	about 1.2		

100W

Remark(): For more technical specifications, please ask the business department for "technical specifications"

■ 60W						
Model No.	Output	To	ol.	R	λN	Effi.
woder No.	Output	Ch1	Ch2	Ch1	Ch2	E111.
MDR20601F	4A/5V 3A/12V	±2%	±6%	60mV	100mV	77%
MDR20602F	2A/5V 2A/24V	±2%	±6%	60mV	150mV	80%
MDR20603F	2A/12V 1.5A/24V	±2%	±6%	100mV	150mV	81%
MDR20604F	1.5A/10V 3A/24V	±2%	±6%	100mV	150mV	81%
■ 150W						
Model No.	0	Tol.		R	λN	E 66:
woder No.	Output	Ch1	Ch2	Ch1	Ch2	Effi.
MDR21501F	11A/12V 3A/5V	Ch1 ±1%	Ch2 ±1%	Ch1 100mV	Ch2 60mV	Eπ. 80%
	,					
MDR21501F	11A/12V 3A/5V	±1%	±1%	100mV	60mV	80%
MDR21501F MDR21502F	11A/12V 3A/5V 5.5A/24V 3A/5V	±1% ±1%	±1%	100mV 150mV	60mV	80% 82%
MDR21501F MDR21502F	11A/12V 3A/5V	±1% ±1%	±1% ±1%	100mV 150mV	60mV 60mV	80%
MDR21501F MDR21502F	11A/12V 3A/5V 5.5A/24V 3A/5V	±1% ±1%	±1% ±1%	100mV 150mV	60mV 60mV	80% 82%
MDR21501F MDR21502F 500W Model No.	11A/12V 3A/5V 5.5A/24V 3A/5V Output	±1% ±1%	±1% ±1%	100mV 150mV R8	60mV 60mV &N Ch2	80% 82% Effi.

Model No.	Output	To	ol.	R	λN.	Effi.
Model No.	Output	Ch1	Ch2	Ch1	Ch2	L
MDR21001F	7A/12V 3A/5V	±1%	±1%	100mV	60mV	80%
MDR21002F	3.5A/24V 3A/5V	±1%	±1%	150mV	60mV	82%
MDR21003F	3A/24V 1.5A/12V	±1%	±1%	240mV	120mV	80%
240W						
		т.	- 1	D.) N I	

240W						
Model No.	Output	Tol. R			kΝ _{Eff}	Effi.
woder No.	Output	Ch1	Ch2	Ch1	Ch2	
MDR22402S	9A/24V 5A/5V	±1%	±1%	150mV	60mV	80%
MDD224026	4 EA (49)/ EA (E)/	⊥10/	⊥10/	260m\/	60m\/	0.20/

MGR Series







■ Features

Peatures
Universal AC input / Full range
Protections:Over voltage / overload / short circuit
LED indicator for power on
Installed on DIN rail TS-35
Built-in active PFC function
Natural heat dissipation
Small-volume, Exquisite and beautiful,
High-efficiency, High-reliability
2 years warranty

10/20W 40/60W 100W

Model No	MGR010	MGR020	MGR040	MGR060	MGR100		
Input Voltage			85~264VAC;120~370VDC				
Output Voltage Adjustment Range		5V:4.5 ~ 5.5V,12V:10.8 ~	- 13.8V,15V:13.5 ~ 18V,24V:21.6	5~29V,48V:43.2~55.2V			
Overload Protection			105%~150%				
Over Voltage Protection		5V:5.75~6.75V,12V:13.8~1	6.2V,15V:17.25 ~ 20.25V,24V:2	7.6~32.4V,48V:43.2~55.2V			
Safety Standards			GB4943.1				
EMC Standards	EN55022	EN55022(CISPR222)Class B;EN61000-4-2 , 3 , 4 , 5 , 6 , 8 , 11 , EN61000-6-1, light industry level , criteria A					
Withstand Voltage		I/P-O/P:3	BKVAC I/P-FG:1.5KVAC O/P-FG	:0.5KVAC			
Working Temperature		- 20∼+70°C (Pass off "te	chnical specifications")		- 10~+60°C (Pass off "technical specifications")		
Storage Humidity			- 20∼+85℃				
Storage Humidity			10-95%RH				
Vibration		10-500Hz,2G 10mi	n./1 cycle,period for 60 min.ea	ich along X,Y,Z axes			
(W*H*D)(mm)	90*22	5*100	90*40	0*100	90*55*100		
Weight Kg	about 0.18	about 0.2	about 0.32	about 0.45			

Remark(): For more technical specifications, please ask the business department for "technical specifications

■ 10W				
Model No.	Output	Tol.	R&N	Effi.
MGR010-05F	2A 5V	±5%	80mV	76%
MGR010-12F	0.84A 12V	±3%	120mV	80%
MGR010-15F	0.67A 15V	±3%	120mV	80%
MGR010-24F	0.42A 24V	±2%	150mV	83%
■ 40W				
Model No.	Output	Tol.	R&N	Effi.
MGR040-05F	6A 5V	±2%	80mV	78%
MGR040-12F	3.33A 12V	±1%	120mV	86%
MGR040-24F	1.7A 24V	±1%	150mV	88%
MGR040-48F	0.83A 48V	±1%	200mV	88%
■ 100W				
Model No.	Output	Tol.	R&N	Effi.
MGR100-12C	7.5A 12V	±1%	120mV	83%
MGR100-24C	4A 24V	±1%	150mV	86%
MGR100-48C	2A 48V	±1%	200mV	87%

20W				
Model No.	Output	Tol.	R&N	Effi.
MGR020-05F	3A 5V	±2%	80mV	76%
MGR020-12F	1.67A 12V	±1%	120mV	80%
MGR020-15F	1.34A 15V	±1%	120mV	80%
MGR020-24F	1A 24V	±1%	150mV	83%
■ 60W				
Model No.	Output	Tol.	R&N	Effi.
MGR060-05F	10A 5V	±2%	80mV	78%
MGR060-12F	5A 12V	±1%	120mV	86%
MGR060-24F	2.5A 24V	±1%	150mV	88%









■ Features

Universal AC input / Full range
Protections:Over voltage /overload / short circuit
LED indicator for power on
Installed on DIN rail TS-35
Built-in active PFC function
Natural heat dissipation
Small-volume,Exquisite and beautiful,
High-efficiency,High-reliability
2 years warranty

75W 120/150W 240W 480W

Model No	MQR075	MQR120	MQR150	MQR240	MQR480		
Input Voltage	96~264VAC;120~370VDC						
Output Voltage Adjustment Range		12\	V:12~14V,24V:24~28V,48V:48~	55V			
Overload Protection			105%~150%				
Over Voltage Protection		12\	V:14~17V,24V:29~33V,48V:56~0	65V			
Safety Standards		GB4943.1					
EMC Standards	EN55022(CISPR222)Class B;EN61000-4-2 , 3 , 4 , 5 , 6 , 8 , 11 , EN61000-6-1						
Withstand Voltage		I/P-O/P	:3KVAC I/P-FG:1.5KVAC O/P-FG:	0.5KVAC			
Working Temperature	- 20∼+70°C (Pass off "ted	chnical specifications")	- 20 ~ +60 °C (Pass off "technical specifications")	- 20~+70°C (Pass off "te	echnical specifications")		
Storage Humidity			- 20∼+85℃				
Storage Humidity			10-95%RH				
Vibration		10-500Hz,2G 10m	nin./1 cycle,period for 60 min.eac	ch along X,Y,Z axes			
(W*H*D)(mm)	125.2*32*102	125.2*	40*113.5	125.2*63*113.5	125.2*85.5*128.5		
Weight Kg	about 0.55	abo	ut 0.65	about 1.08	about 1.9		

Remark(): For more technical specifications, please ask the business department for "technical specifications"

75W				
Model No.	Output	Tol.	R&N	Effi.
MQR075-12F	6.3A 12V	±2%	80mV	84%
MQR075-24F	3.2A 24V	±1%	150mV	87%
MQR075-48F	1.6A 48V	±1%	240mV	88%
■ 150W				
Model No.	Output	Tol.	R&N	Effi.
MQR150-24F	6.5A 24V	±1%	150mV	87%
■ 480W				
Model No.	Output	Tol.	R&N	Effi.
MQR480-24C	20A 24V	±1%	150mV	90%
MQR480-48C	10A 48V	±1%	150mV	90%

120W				
Model No.	Output	Tol.	R&N	Effi.
MQR120-12F	10A 12V	±2%	100mV	84%
MQR120-24F	5A 24V	±1%	120mV	87%
MQR120-48F	2.5A 48V	±1%	150mV	88%
240W				
Model No.	Output	Tol.	R&N	Effi.
MQR240-24C	10A 24V	±1%	150mV	87%
MQR240-48C	5A 48V	±1%	150mV	89%

60W

30W

150W

■ Features

Pearures
Protections: Over voltage /overload / short circuit
Built-in active PFC function
Cooling by conductive epoxy
All aluminum case
Surge protection
Seismic protection
3 years warranty

Model No	MFS-030W	MFS-060W	MFS-100W	MFS-150W	MFS-200W	MFS-240W	MFS-320W
Input Voltage	90~264VAC 127~370VDC						
Overload Protection	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
Over Voltage Protection	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
Withstand Voltage	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
Working Temperature	- 40∼70°C						
Storage Humidity	5-95%RH						
Vibration	10-500Hz,2G 10min./1 cycle,period for 60 min.each along X,Y,Z axes						
(W*H*D)(mm)	157*37*25	197*42*30	190*70*40	211*68*39.8	221*6	8*39.8	220*73*45
Weight Kg	about 0.32	about 0.54	about 0.95	about 1.11 abou		about 1.3	

320W

200/240W

Remark@: For more technical specifications, please ask the business department for "technical specifications"

■ 30W				
Model No.	Output	Tol.	R&N	Effi.
MFS030-12	2.5A 12V	±2.5%	150mV	83%
MFS030-24	1.25A 24V	±1%	150mV	85%
■ 100W				
Model No.	Output	Tol.	R&N	Effi.
MFS100-12C	5A 12V	±2.5%	150mV	83%
MFS100-24C	2.5A 24V	±1%	150mV	85%
200W				
Model No.	Output	Tol.	R&N	Effi.
MFS200-12C	16.7A 12V	±5%	120mV	88%
MFS200-24C	8.3A 24V	±5%	120mV	89%
320W				
Model No.	Output	Tol.	R&N	Effi.
MFS320-12C	26.7A 12V	±5%	120mV	85%
MFS320-24C	13.3A 24V	±5%	120mV	87%

100W

■ 60W				
Model No.	Output	Tol.	R&N	Effi.
MFS060-12	5A 12V	±2.5%	150mV	83%
MFS060-24	2.5A 24V	±1%	150mV	85%
■ 150W				
Model No.	Output	Tol.	R&N	Effi.
MFS150-12C	12.5A 12V	±2.5%	150mV	83%
MFS150-24C	6.25A 24V	±1%	150mV	85%
2 40W				
Model No.	Output	Tol.	R&N	Effi.
MFS240-12C	20A 12V	±5%	120mV	86%
MFS240-24C	10A 24V	±5%	120mV	89%

MNS Series





24W

12W

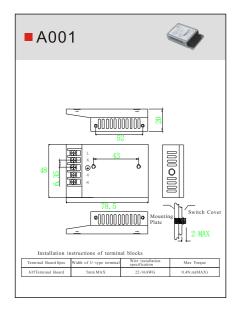
■ Features

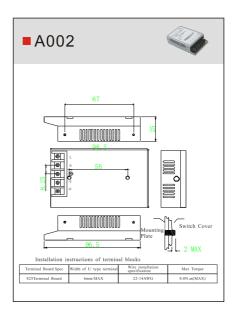
Superior ripple performance
Universal AC input / Full range
100% full load burn-in test
Protections: Over voltage / overload / short circuit
LED indicator for power on
Small-volume, built-in installation
Efficient and natural heat dissipation
Surge protection
Seismic protection
3 years warranty

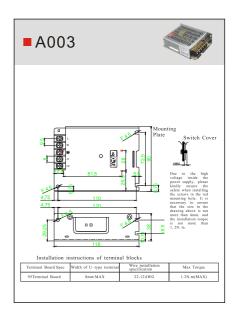
Model No	MNS-012W	MNS-024W				
Input Voltage	85-264VAC 120-370VDC					
Input Current	0.35A/115VAC 0.25A/230VAC	0.55A/115VAC 0.35A/230VAC				
Surge current (max)	22A/115VAC	44A/230VAC				
Overload Protection	Protection type: Hiccup mode, recovers au	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
Over Voltage Protection	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
Safety Standards	GB4943.1					
EMC Standards	EN55022(CISPR222)Class B;EN61000-4-2 , 3 , 4 , 5 , 6 , 8 , 11 , EN61000-6-1,light industry level , criteria A					
Withstand Voltage	I/P-O/P:2KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					
Working Temperature	- 25 \sim +60 $^{\circ}\mathrm{C}$ ($>$ 50 $^{\circ}\mathrm{C}$ Derating , View the Temperature Characteristic)					
Storage Humidity	10-95%RH					
Vibration	10-500Hz,2G 10min./1 cycle,period for 60 min.each along X,Y,Z axes					
(W*H*D)(mm)	78*48*21 96*58*25					
Weight Kg	about 0.07 about 0.12					
emark(t): For more technical specifications, please ask the business department for "technical specifications"						

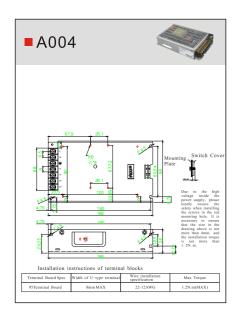
■ 12W				
Model No.	Output	Tol.	R&N	Effi.
MNS-012W03VFE	7.2A 3.3V	±2%	25mV	80%
MNS-012W05VFE	2.4A 5V	±2%	25mV	80%
MNS-012W12VFE	1.0A 12V	±1%	30mV	82%
MNS-012W15VFE	0.8A 15V	±1%	35mV	82%
MNS-012W24VFE	0.5A 24V	±1%	40mV	83%

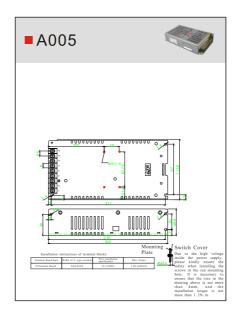
24W				
Model No.	Output	Tol.	R&N	Effi.
MNS-024W03VFE	4.5A 3.3V	±2%	25mV	80%
MNS-024W05VFE	4.0A 5V	±2%	25mV	80%
MNS-024W12VFE	2.0A 12V	±1%	25mV	83%
MNS-024W15VFE	1.6A 15V	±1%	35mV	84%
MNS-024W24VFE	1.0A 24V	±1%	35mV	86%
MNS-024W48VFE	0.5A 48V	±1%	40mV	86%

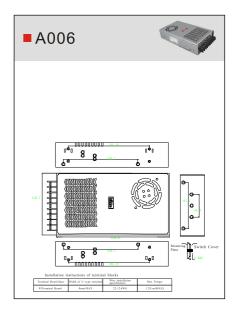


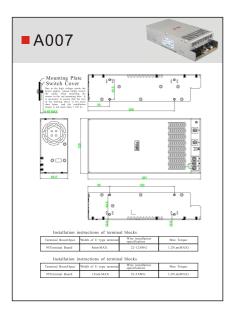


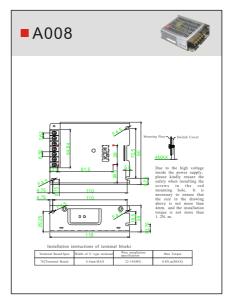


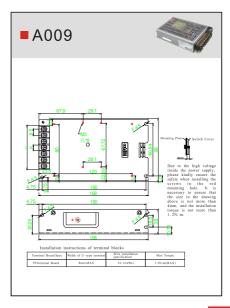




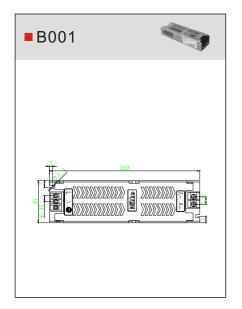


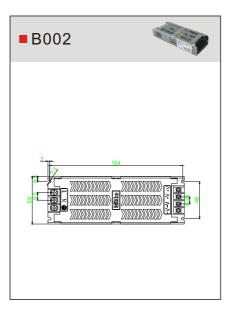


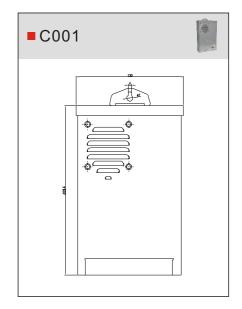




Dimensions



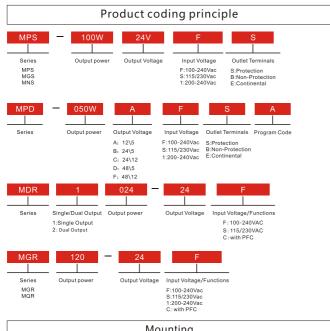


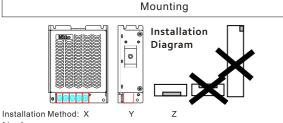


Engineering data

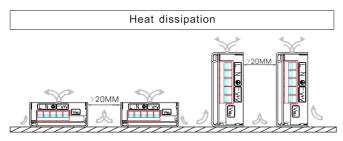
Specification of Technical Test Environment

- 1: If no special instructions, all specifications and parameters in the input is 230 vac, rated load and measured in 25 °C environment.
- 2 : Ripple and noise measurement method: using a 12 °C double glue line, at the same time terminal to 0.1 uf and 47 uf capacitance in parallel, is measured under 20 MHZ bandwidth.

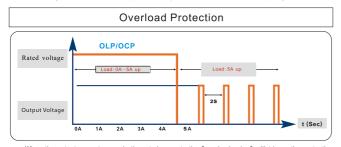




- Notice:
- •Use the metal plate as the mounting panel.
- Improper mounting will interfere with heat dissipation and may occasionally result in deterioration or damage of internal parts. Use the standard mounting method only.
 Do not use in locations where the ambient temperature exceeds the range of the derating curve.



- •Install the Power Supply so that the air flow circulates around the Power Supply, as the Power Supply is designed to radiate heat by means of natural air flow
- •When mounting two or more Power Supplies side-by-side, allow at least 20 mm spacing between them



When the output current exceeds the rated current, the "overload value" will trigger the protection to prevent excessive current from damaging the power source. Hiccup mode, recovers automatically after fault condition is removed; constant current mode, recovers automatically after fault condition is removed; shut-off mode; shut down o/p voltage, re-power on to recover. Different model has different protection mode. (see specification)

Over Voltage Protection < Max

When the output voltage exceeds the "overvoltage value", the protection function is triggered, and woutput voltage is cut off to prevent the load from being damaged by the large voltage. The "overvoltage" of each model is shown in the technical specifications.

Short Circuit Protection

When short circuit, recovers automatically after fault condition removed, there are three protection types: hiccups mode, constant current mode, shut-off mode. (see specifications).

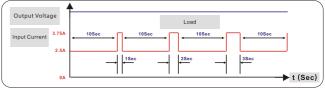
Over Temperature Protection

When the temperature rises to the alarm value, the protection will be started, the power supply will not be output, recovers automatically after temperarature goes down

Smart Fan

With fan forced refrigeration products, when the temperature below 40 $\,^{\circ}$ C, fan doesn't start, when the temperature is higher than the fan smart start, to forced cooling inside the machine

Impact Load



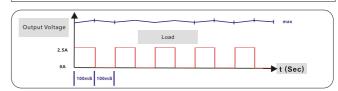
Impact Load

+10%

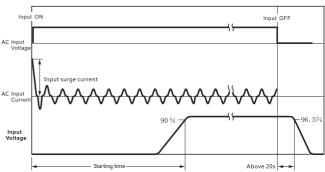
-10%

After the output has reached its steady state set value, the power supply can support surge loads with a higher short-term power demand up to 120% of maximum rated load, for a maximum duration of 3 seconds

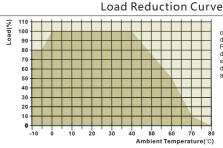
Tolerance, line regulation, load regulation



• Inrush Current, Startup Time, Output Hold Time



- Tolerance: includes set up tolerance, line regulation and load regulation Line Regulation, at full load, the input voltage is from low to high Load Regulation,Nominal output voltage, 0%-100% load



The Internal parts may occasionally deteriorate or be damaged. Do not use the Power Supply outside the derating range (i.e., the area shown by shading.If there is a derating problem, use forced air-cooling.

Safety Precautions

Caution

Minor electric shock, fire, or Product failure may occasionally occur Do not disassemble, modify, or repair the Product to touch the interior of the Product.



Minor burns may occasionally occur. Do not touch the Product while power is being supplied or immediately after power is turned OFF.



Minor injury due to electric shock may occasionally occur. Do not touch the terminals while power is being supplied. Always close the terminal cover after wiring.



Minor electric shock, fire, or Product failure may occasionally occur. Do not allow any pieces of metal or conductors or any clippings or cuttings resulting from installation work to enter the Product.



Precautions for Safe Use

- Ambient Operating and Storage Environments
- Use each Product within the rated range for ambient operating temperature, ambient operating
- And storage temperature specified for that Product.
- Do not use the Power Supply in locations subject to direct sunlight.
- Do not use locations where liquids, foreign matter, or corrosive gases may enter the interior of the

• Wiring

- Connect the ground completely. A protective earthing terminal stipulated in safety standards is used. Electric shock or malfunction may occur if the ground is not connected completely.
- Minor fire may possibly occur. Ensure that input and output terminals are wired correctly.
- Do not apply more than 75 N force to the terminal block when tightening it.

· In Case There Is No Output Voltage

- The possible cause for no output voltage may be that the overcurrent or overvoltage protection has operated. The internal protection may operate if a large amount of surge voltage such as a lightening surge occurs while turning ON the Power Supply.
 In case there is no output voltage, please check the following points before contacting

- us.

 1. Checking overcurrent protected status: Check whether the load is in overcurrent status or is shortcircuited. Remove wires to load when checking.

 2. Checking overvoltage or internal protection: Turn the power supply OFF once, and leave it OFF for at least 5 minutes. Then turn it ON again to see if this clears the condition.

Warranty

Free warranty scope:

The average temperature is below 50 $^\circ$ (Ambient temperature around the body) : At rated load range, At standard configuration; Non – human damaged, Non-force majeure damage.

The information provided in this product description contains only general performance data, it may changed depending on the usage and the environment or with further development of the product. Only under the terms of the contract we are obliged to provide the required performance data. The content is subject to change without prior notice.



Zip Code: 361100 Tel: 0592-5651090 Fax: 0592-5651085