AC-DC DIN Rail Power Supply 240w multicomp PRO





Features

- Universal 180-550V AC or 254-780V DC input voltage
- Single/Two phase both available
- Operating ambient temperature range: -40°C to +70°C
- Low ripple & noise, high efficiency
- DC OK function
- Built-in active PFC function
- 150% peak load for 5 seconds
- Output short circuit, over-current, over-voltage, over-temperature, constant current limit protection
- 3 Years Warranty

MPIF240-26Bxx AC-DC converter series featuring a cost-effective, energy efficient green power supply solution for standard DIN-rail mounting. The products offer a high level of stability and immunity to noise for electricity industry, and other industrial equipment in a variety of harsh environments. With good EMC performance, compliant with international UL/EN/BS EN62368, UL61010, UL508, UL62477, UL60664, GB4943 standards for EMC and safety.

Selection Guide							
Part Number	Output Power (W)	Nominal Output Voltage and Current (Vo/lo)	Output Voltage Adjustable Range ADJ (V) (≤240W)*	Efficiency at 230V AC (%) Typ.	Capacitive Load (µF) Max.		
MPIF240-26B24	240	24V/10A	24-28	91	10000		
MPIF240-26B48 48V/5A 48-55 91 10000							
Note: *The actual adjustment range may extend outside the values stated, care should be exercised to ensure that the output voltage and power levels remain within the published maximum values.							

Item	Opera	ting Conditions	Min.	Тур.	Max.	Unit
Innut Veltage Denge	AC input		180		550	V AC
Input Voltage Range	DC input		254		780	V DC
Input Frequency					63	Hz
Innut Current	230V AC				2	
Input Current	400V AC				1	А
Inrush Current	400V AC	Cold start			110	
Davies Falatan	230V AC			0.93		
Power Factor	400V AC			0.9		
Leakage Current	480VAC			1mA RI	VIS Max.	-
Input Temporary Over-voltage	Rated load output, 600VAC input		5s/time, interval 10s, product without damagi			t damaging
Hot Plug			Unavailable			



Output Specifications

ltem	Operating	Conditions	Min.	Тур.	Max.	Unit	
Output Voltage Accuracy	Full load range			±1			
Line Regulation	Rated load			±0.5		%	
Load Regulation	400V AC			±1			
Ripple & Noise*	20MHz bandwidth (p	eak-to-peak value)			150	mV	
Temperature Coefficient				±0.03		%/°C	
Short Circuit Protection			Hico	Hiccup, continuous, self-recovery			
Over-current Protection	tection		≥15	≥150% Io, hiccup, self-recovery			
Quer veltere Dretestion	24V output 48V output		≤33V	Quitautu			
Over-voltage Protection			≤65V	Output voltage clamp or hiccup			
Over-temperature Protection	400V AC, rated load		Outpu	out voltage turn off, self-recovery			
Minimum Load			0			%	
Chart un Time	230V AC			1.5	3	-	
Start-up Time	400V AC			0.8	1.5	S	
DC OK Signal**	Resistive load			30V D	C/1A Max.		
	Room temperature,	230V AC		18		ms	
Hold-up Time	full load	400V AC					
Note: **DC OK Signal: When the output disconnected.	t voltage is normal, the relay is	connected. When the output	t voltage is abr	normal (<90%	6Vo), the relay	is	

General Specifications

ltem		Operating Conditions	Min.	Тур.	Max.	Unit
	Input - output		4000			V AC
	Input - PE	Electric Strength Test for 1min., leakage current<5mA	2000			
Isolation	Output - PE		500			
Output - DC O		Electric Strength Test for 1min., leakage current<2mA	500			
	Input - output		100			MΩ
Insulation Resistance	Input - PE	500V DC				
rtoolotarioo	Output - PE					
Operating Temperature			-40		+70	ာ
Storage Temperature			-40		+85	
Operating Humidity		Non condensing			05	0/ DLI
Storage Hun	nidity	Non-condensing			95	%RH



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ltem	Operating Conditions	Min.	Тур.	Max.	Unit
	-40°C to -30°C	3			%/°C
	+50°C to +70°C	2			%/°C
Power Derating	180V AC - 200V AC	0.5			%/V AC
	2000-5000m	3.5			%/Km
Safety Standard		EN62368-1, BS EN 62368-1 (Report); Design refer to UL508, UL61010-1, UL62477-1, UL60664, UL62368-1, GB4943.1 & EN61558-1		10-1,	
Safety Class			CLAS	SI	
MTBF MIL-HD		DBK-217F@2	5°C>300,0	00 h	

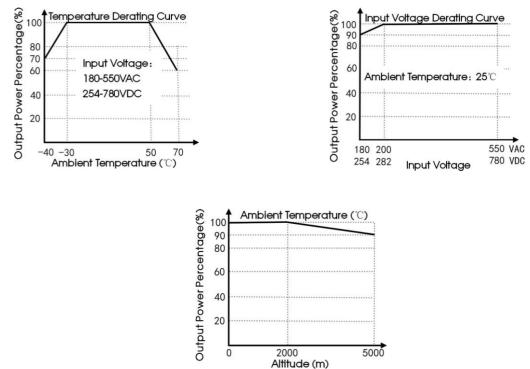
Mechanical Specifications				
Case Material	Metal (AL1100, SGCC)			
Dimensions	124mm x 54mm x 110mm			
Weight	790g (Тур.)			
Cooling Method	Free air convection			

Electromagnetic Compatibility (EMC)

	CE	CISPR32 EN55032	CLASS B			
Emissions	RE	CISPR32 EN55032	CLASS B			
	Harmonic current	IEC/EN61000-3-2	CLASS A			
	ESD	IEC/EN61000-4-2	Contact ±8KV/Air ±15KV	perf. Criteria A		
Immunity	RS	IEC/EN61000-4-3	10V/m	perf. Criteria A		
	EFT	IEC/EN61000-4-4	±4KV	perf. Criteria A		
	Surge	IEC/EN61000-4-5	Line to line ±2KV/line to ground ±4KV	perf. Criteria A		
	CS	IEC/EN61000-4-6	10 Vr.m.s	perf. Criteria A		
	PFM	IEC/EN61000-4-8	30A/m	Perf. Criteria B		
	Voltage dips, short interruptions and voltage variations immunity	IEC/EN61000-4-11	100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods	perf. Criteria B		

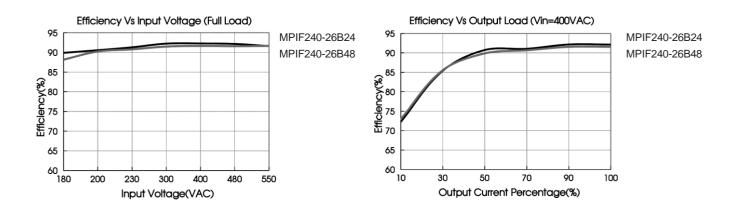


Product Characteristic Curve



Note:

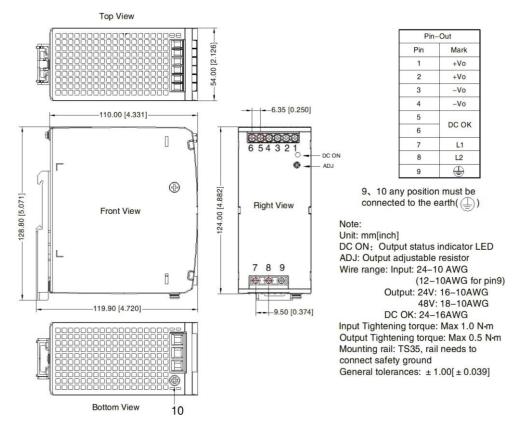
With an AC input between 180-198V AC/550-600V AC and a DC input between 254-280V DC/770-848V DC, the output power must be derated as per temperature derating curves;





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Dimensions and Recommended Layout



Notes:

- 1. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity<75%RH with nominal input voltage and rated output load;
- 2. The room temperature derating of 3.5°C/1000m is needed for operating altitude greater than 2000m;
- 3. In order to improve the efficiency at high input voltage, there will be audible noise generated, but it does not affect product performance and reliability;
- 4. The out case needs to be connected to PE ((1)) of system when the terminal equipment in operating;

Part Number Table

Description	Part Number
AC-DC DIN Rail Power Supply, 2 Phase I/P, 24V, 10A	MPIF240-26B24
AC-DC DIN Rail Power Supply, 2 Phase I/P, 48V, 5A	MPIF240-26B48

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