





#### **Features**

- Universal 320-600V AC or 450-850V DC input voltage, three-phase input (two or three phase are available)
- Operating ambient temperature range: -30°C to +70°C (60°C full load)
- High I/O isolation voltage up to 4000V AC
- Low ripple & noise, high efficiency, 5000m altitude
- · DC OK function
- 130% peak load for 3 seconds
- Output short circuit, over-current, over-voltage, over-temperature protection
- · 3 Years Warranty

MPIT240-26Bxx 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/IEC/BS EN62368, UL61010, EN62477, EN61558 standards for EMC and safety.

Selection Guide							
Part Number	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range ADJ (V) (≤240W)*	Efficiency at 230V AC (%) Typ.	Capacitive Load (µF) Max.		
MPIT240-26B24	240	24V/10A	24-28	92	10000		
MPIT240-26B48	240	48V/5A	48-55	92	5000		

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.

Input Specifications							
Item	Operati	ng Conditions	Min.	Тур.	Max.	Unit	
Input Voltage Range	AC input		320		600	V AC	
(three-phase input)	DC input		450		850	V DC	
Input Frequency			47		63	Hz	
Innest Comment	400V AC	400V AC			0.85		
Input Current	500V AC		T		0.75	Α	
Inrush Current	400V AC	Cold start	1	50	60		
Leakage Current	480V AC	<2mA/rms					
Hot Plug	Unavailable						

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### **Output Specifications**

ltem	Operating Conditions		Min.	Тур.	Max.	Unit	
Output Voltage Accuracy	All load range			±1			
Line Regulation	Rated load		1	±0.5		%	
Load Regulation	400V AC		1	±1			
Dinala 9 Naisa*	20MHz bandwidth	24V output	]	100	150	mV	
Ripple & Noise*	(peak-to-peak value)	48V output	1	150	200		
Stand-by Power Consumption			]		2	W	
Temperature Coefficient			1	±0.03		%/°C	
Short Circuit Protection				o mode after constant current operation (typ.), continuous, self-recovery			
Over-current Protection				nter hiccup mode after constant current ration for 3s (typ.), self-recovery			
Over velte se Drete eties	24V output		≤36V	Output voltage hiccup, self-recovery			
Over-voltage Protection	48V output		≤65V				
	Over-temperature protection start				85		
Over-temperature Protection	Over-temperature pro release	Over-temperature protection release				°C	
Minimum Load			0			%	
Start-up Time					1.5	s	
DC OK Signal**	Resistive load			30V DC/1A Max.			
Hold up Time	400V AC 400V AC		10	20		m.a	
Hold-up Time			30	40		ms	

### **General Specifications**

Item		Operating Conditions	Min.	Тур.	Max.	Unit
Input - output		Electric Strength Test for 1min., leakage current<10mA	4000			
Isolation	Input - 🖶		2500			V AC
ISOIALION	Output - 🖶	Electric Strength Test for 1min.,	500			
	Output - DC OK	leakage current<15mA	500			
1 1 2	Input - output		100			ΜΩ
Insulation Resistance	Input - 🖶	500V DC				
Output - 🖶						
Operating Temperature			-30		70	°C
Storage Temperature			-40		85	C
Storage Humidity					95	%RH
Altitude					5000	m

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Item	Operating	Operating Conditions		Тур.	Max.	Unit
	+60°C to +70°C	+60°C to +70°C				%/°C
Power Derating	320V AC - 340V AC	Three-phase input	1			%/V AC
	550V AC - 600V AC		0.4	 - -		
	320V AC - 340V AC	Two-phase input	1			
	550V AC - 600V AC	(80%lo)	0.4			
Safety Standard					IEC/BS EN6 2-201 & EN6	
Safety Class				CLA	SSI	
MTBF				DBK-217F@	25°C>300,0	00 h

Mechanical Specifications				
Case Material	Metal (AL1100, SGCC)			
Dimensions	124mm x 54mm x 110mm			
Weight	750g (Typ.)			
Cooling Method	Free air convection			

### **Electromagnetic Compatibility (EMC)**

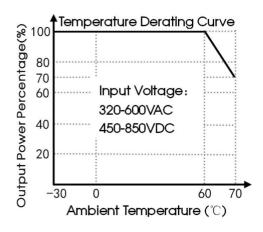
	CE	CISPR32 EN55032	CLASS B	
Emissions	RE	CISPR32 EN55032	CLASS B	
EIIIISSIONS	Harmonic current	IEC/EN61000-3-2	CLASS A	
	Voltage flicker	IEC/EN61000-3-3		
	ESD	IEC/EN61000-4-2	Contact ±8KV/Air ±15KV	perf. Criteria A
	RS	IEC/EN61000-4-3	10V/m	perf. Criteria A
	EFT	IEC/EN61000-4-4	±2KV	perf. Criteria A
	Surge	IEC/EN61000-4-5	Line to line ±2KV/line to ground ±4KV	perf. Criteria A
Immunity	CS	IEC/EN61000-4-6	10 Vr.m.s	perf. Criteria A
	PFMF	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

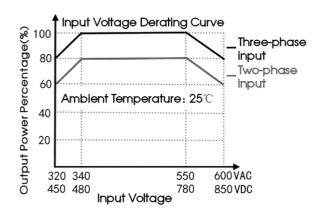
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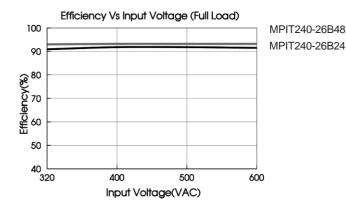
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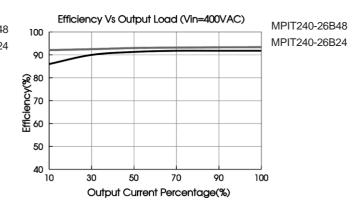
#### **Product Characteristic Curve**





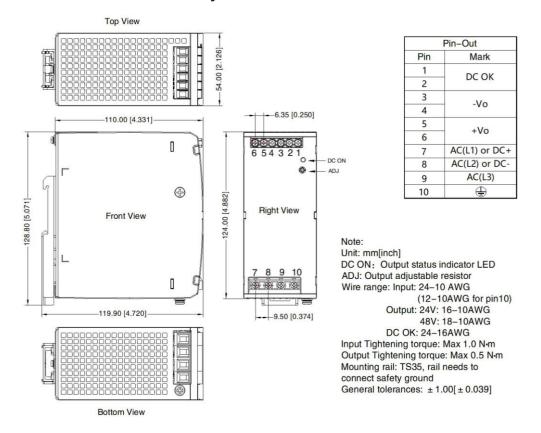
Note: With an AC input between 320-340V AC/550-600V AC and a DC input between 450-480V DC/780-850V DC, the output power must be derated as per temperature derating curves;







#### **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 ( ) of system when the terminal equipment in operating;

#### **Part Number Table**

Description	Part Number
AC-DC DIN Rail Power Supply, 3 Phase I/P, 24V, 10A	MPIT240-26B24
AC-DC DIN Rail Power Supply, 3 Phase I/P, 48V, 5A	MPIT240-26B48

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