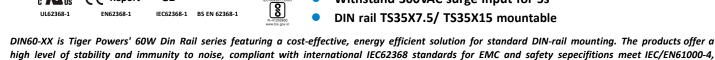


60W, AC/DC DIN-Rail Power Supply



FEATURES

- Universal 85-264VAC or 120-370VDC input voltage
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range: -40 $^\circ$ C to +70 $^\circ$ C
- High I/O isolation test voltage up to 4000VAC
- Industrial product technology design
- Over-voltage class III (Designed to meet EN61558-1 safety standards)
- Low standby power consumption, high efficiency
- Low ripple & noise
- Output short circuit, over-current, over-voltage protection
- Withstand 300VAC surge input for 5s



are ideal for applications such as industrial control equipment machinery and all kinds of applications in a harsh environment.

Selection	Guide					
Certification	Part No.	Output Power (W)	Nominal Output Voltage and Current (Vo/Io)	Output Voltage Adjustable Range ADJ (V)*	Efficiency at 230VAC (%) Typ.	Capacitive Load (µF) Max.
	DIN60-5	32.5	5V/6.5A	4.9-5.5	84	20000
/=>. /:= 0 /	DIN60-12	54	12V/4.5A	10.8-13.8	88	10000
UL/EN/IEC/ BIS/UKCA	DIN60-15	60	15V/4.0A	13.5-18.0	89	8000
	DIN60-24	60	24V/2.5A	21.6-29.0	90	4000
	DIN60-48	60	48V/1.25A	43.2-55.2	91	680

CISPR32, EN55032, UL62368, IEC62368 and EN62368. These light weight AC-DC converters also have an extremely compact design for space saving and

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	Operating Conditions	Min.	Тур.	Max.	Unit	
Input Voltage Range	AC input	85		264	VAC	
input voitage nange	DC input	120		370	VDC	
Input Frequency		47		63	Hz	
	115VAC			1.2		
Input Current	230VAC			0.8	Α	
	115VAC		30		_ ^	
Inrush Current	230VAC		60			
Leakage Current	264VAC		0.25mA RMS max.			
Hot Plug			Unavailable			

Output Specifications						
Item	Operating Conditions	Operating Conditions		Тур.	Max.	Unit
Output Voltage Accuracy	0% - 100% load	0% - 100% load		±2		
Line Regulation	Rated load	Rated load		±0.5		%
Load Regulation	230VAC	230VAC		±1.5		
	20MHz bandwidth (peak-to-peak value)	5V output			100	mV
		12V output			120	
Output Ripple & Noise*		15V output			120	
		24V output			150	
		48V output			240	
Temperature Coefficient				±0.02		%/°C

AC/DC Converter

DIN60-XX Series



	220\/AC :===:t	5V/12V/15V/24V output			0.3	w
Stand-by Power Consumption	230VAC input	48V output			0.4	VV
Short Circuit Protection			Hice	cup, continuous	, self-recovery	
Over-current Protection				≥120%lo, self-	-recovery	
	5V output		≤7.5V			
	12V output		≤ 16V	Output voltage clamp or hiccup		
Over-voltage Protection	15V output	≤20V				
	24V output	≤36V				
	48V output		≤60V			
Minimum Load			0			%
Start-up Delay Time					3	S
	115VAC 230VAC			15		
Hold-up Time				80		ms

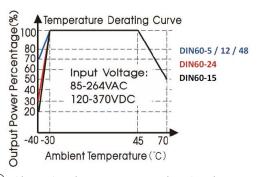
Item		Operating Conditions		Min.	Тур.	Max.	Unit
Isolation	Input - output	Electric Strength Test for 1min., (leakage current<5mA)		4000			VAC
Operating Tempe	rature			-40		+70	
Storage Temperat	ture			-40		+85	\mathbb{C}
Storage Humidity						95	%RH
Operating Altitude						2000	m
Switching Frequency					65		kHz
		-40°C to -30°C	5V/12V/48V output	3.0			0/1%
			24V output	7.0			
Power Derating			15V output	8.0			%/ ℃
		+45°C to +70°C	<u> </u>	2.0			
		85VAC - 100VAC		1.0			%/VAC
Safety Standard				UL/IEC62368-1, IS13252 (Part1) safety approved & EN62368-1, BS EN 62368-1 (Report); Design refer to EN61558-1			red &
Safety Class		CLASS II					
MTBF		MIL-HDBK-217F@25℃		>300,000 h			

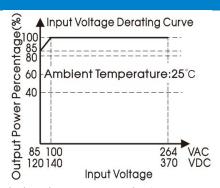
Mechanical Specifications		
Case Material	Plastic, heat-resistant (UL94V-0)	
Package Dimensions	92.66 x 52.00 x 58.00mm	
Weight	175g (Typ.)	
Cooling method	Free air convection	

Electromag	netic Compatibility (EMC)			
Emissions	CE	CISPR32/EN55032	CLASS B	
Emissions	RE	CISPR32/EN55032	CLASS B	
Immunity	ESD	IEC/EN61000-4-2	Contact ±6KV/Air ±8KV	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	Perf. Criteria A
	cs	IEC/EN61000-4-6	10Vr.m.s	Perf. Criteria A
	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 A

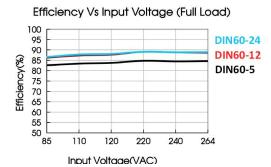


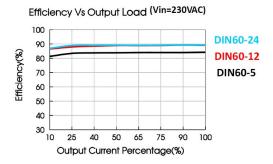
Product Characteristic Curve





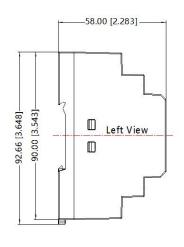
Note: ① With an AC input between 85-100VAC and a DC input between 120-140VDC, the output power must be derated as per temperature derating curves;
② This product is suitable for applications using natural air cooling; for applications in closed environment please consult factory or one of our FAE.

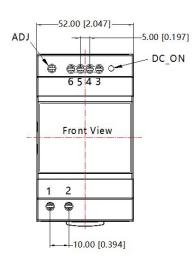




Dimensions and Recommended Layout







Pin-Out		
Pin	LI60-20B	
1	AC(L)	
2	AC(N)	
3	+Vo	
4	+Vo	
5	-Vo	
6	-Vo	

Note:

Unit: mm[inch]

ADJ: adjustable resistance to change

output voltage

Wire range: 24-12 AWG

Tightening torque: Max 0.4 N·m

Mounting rail: TS35

General tolerances: ±1.00[±0.039]

AC/DC Converter

DIN60-XX Series



Note:

- 1. For additional information on Product Packaging please refer to www.TigerPowerSupplies.com
- 2. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25 °C , humidity<75% with nominal input voltage and rated output load;
- 3. All index testing methods in this datasheet are based on our company corporate standards;
- 4. We can provide product customization service, please contact our technicians directly for specific information;
- 5. Specifications are subject to change without prior notice.
- 6. Products are related to laws and regulations: see "Features" and "EMC";
- 7. Our products shall be classified according to ISO14001 and related environmental laws and regulations, and shall be handled by qualified units.