

SL POWER PW180KA SERIES

20 Watts Single Output Industrial Grade





Advanced Energy's SL Power PW180KA AC-DC power supplies are available with a nominal main output 48 V, which have self contained midspan power injector and support power over ethernet up to 20 Watts. PW180KA series has 90 VAC to 265 VAC input voltage range and regulated output with low ripple. IEEE802.3af Compliant and non-Compliant versions are provided.

AT A GLANCE

Total Power

20 Watts

Input Voltage

90 to 265 VAC

of Outputs

Single

SPECIAL FEATURES

- Power over Ethernet (PoE)
- Self Contained Midspan Power Injector
- 90 to 265 VAC Input Range
- Desktop Style
- Single Output up to 20 Watts
- Regulated Output with Low Ripple
- IEEE802.3af Compliant and non-Compliant versions
- CE Compliant
- 3 Years Warranty

SAFETY

■ UL/EN/IEC/CSA62368-1



ELECTRICAL SPECIFICATIONS

Input				
Input range	90 to 265 VAC, 47 to 63 Hz, 1Ø			
Input current	0.5A max at 90 VAC			
Protection	Internal primary current fuse, inrush limiting			
Output				
Output voltage	48 VDC			
Ripple and noise f < 500 Hz 500 Hz to 150 kHz 150 kHz to 500 kHz 500 kHz to 1 MHz	150 mVpk-pk			
Load regulation	±4% (Maximum deviation from nominal voltage for all loading conditions)			
Transient response	500 μs response time for return to within 0.5% of final value for a 50% load step change			
Efficiency	70% min			
Reliability				
Warranty	3 years			
MTBF	100,000 calculated hours			

SAFETY

EN/CSA/IEC/UL	EN/CSA/IEC/UL 62368-1	
CE Mark	Yes	
Dielectric Withstand	3,000 VAC or 4250 VDC primary to secondary	

ENVIRONMENTAL SPECIFICATIONS

Thermal performance	0°C to 40°C, operating temperature with no derating convectional cooling, non vented case		
Storage temperature	-30°C to 85°C		
Relative Humidity	5% to 95% non condensing		
Altitude	0 to 10,000 feet		
Weight	160 grams		
Dimensions (W x H x L)	2.40" x 1.35" x 3.98" (61.5mm x 34.2mm x 101.0mm)		

GENERAL SPECIFICATIONS

Data rate	10/100 M bps		
Standby mode LED (single) Green	Power supply is on		
Topology	Switching-fixed frequency flyback		
Leakage current	Less than 0.75 mA at 265 VAC 50 Hz		
Spacing	6.4mm primary to secondary		
Case material	Black 94V0 polycarbonate		



ORDERING INFORMATION TABLE 1

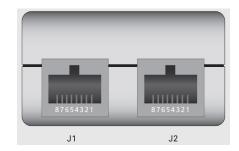
Model Number	Output Voltage	Output	Current	Max Watts	Ripple & Noise
Model Number	Output voitage	min	max	iviax vvalis	Kippie & Noise
PW180KA4800_01	48 V	0.00 A	0.40 A	20.0 W	480 mVpk-pk

ORDERING INFORMATION TABLE 2

PW180	K	А	48	00	-	01
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number	Input Configulation/Model Type F: IEC320 with ground C14 N: Shaver C8	Standard (no modifications or special packaging)

PIN ASSIGNMENTS

Connector	PW180KA			
	PIN 1	Data Pair 1		
	PIN 2	Data Pair 1		
	PIN 3	Data Pair 2		
J1	PIN 4	+ VDC		
OT.	PIN 5	+ VDC		
	PIN 6	Data Pair 2		
	PIN 7	- VDC		
	PIN 8	- VDC		
	PIN 1	Data Pair 1		
	PIN 2	Data Pair 1		
	PIN 3	Data Pair 2		
J2	PIN 4	No Connection		
JZ	PIN 5	No Connection		
	PIN 6	Data Pair 2		
	PIN 7	No Connection		
	PIN 8	No Connection		





ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than four decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

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Advanced Energy

powersales@aei.com (Sales Support) productsupport.ep@aei.com (Technical Support) +1 888 412 7832 Specifications are subject to change without notice. Not responsible for errors or omissions. ©2024 Advanced Energy Industries, Inc. All rights reserved. Advanced Energy®, and AE® are U.S. trademarks of Advanced Energy Industries, Inc.