

SL POWER PW180KB SERIES

15.4 Watts Single Output Industrial Grade





Advanced Energy's SL Power PW180KB 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 15.4 Watts. PW180KB series has 90 VAC to 265 VAC input voltage range and regulated output with low ripple, which is IEEE802.3af compliant.

AT A GLANCE

Total Power

15.4 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 15.4 Watts
- Regulated Output with Low Ripple
- Complies with EMI/RFI Regulations
- IEEE802.3af Compliant
- CE Compliant
- Impact Resistant Polycarbonate Enclosure
- Private Label Marking and Custom Designs Available
- 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			
Inrush Current	450 mA max			
Leakage Current	Less than 0.75 mA at 265 VAC 50 Hz			
Output				
Output Voltage	48 VDC typical, 44 VDC to 57 VDC			
Ripple and Noise f < 500 Hz 500 Hz to 150 kHz 150 kHz to 500 kHz 500 kHz to 1 MHz	200 mVpk-pk 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			
Output Current	0.35 A max.			

SAFETY

EN/IEC/UL	EN/IEC/UL 60950-1		
CE Mark	Yes		
Dielectric Withstand 3,000 VAC or 4250 VDC primary to secondary			
EMC EN55022/55024/61000			

PROTECTION

Overload Current Detection	(15.4W/Vport) min./ 400mA max.
Overload Time Limit	50 to 75 mS
Short Circuit Protection	400 to 450 mA max.

GENERAL SPECIFICATIONS

Topology	Switching-fixed Frequency Flyback		
Dimensions (L x W x H)	3.98 x 2.40 x 1.35 (in), 101.0 x 61.5 x 34.2 (mm)		
Weight	5.95 ounces, 170 g		
Spacing	6.4mm primary to secondary		
Case	Desktop type		
Case Material	Black 94V0 polycarbonate		
Cord and Connectors	Dual RJ45 Jacks built into the enclosure		
Power Mode LED (Two Colors)			
Amber	Power on, detection mode		
Green	Injecting full power, power up mode		



ORDERING INFORMATION TABLE 1

Madal Numban	Output Valtage	Output	Current	May Watta	Dinula 9 Maisa
Model Number	Output Voltage	min	max	Max Watts	Ripple & Noise
PW180KB4800_01	48 V	0.00 A	0.35 A	15.4 W	480 mVpk-pk

ORDERING INFORMATION TABLE 2

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

INPUT CONFIGURATION



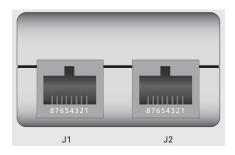




Shaver C8 (N)

PIN ASSIGNMENTS

Connector	PW180KB		
	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	









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ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three 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.

PRECISION | POWER | PERFORMANCE | TRUST

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