SL POWER
PW180KA SERIES

20 Watts Single Output
Industrial Grade

Industrial

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 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	 500 mVpk-pk 200 mVpk-pk 150 mVpk-pk 100 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

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
Cord and connectors	Dual RJ45 Jacks built into the enclosure

ORDERING INFORMATION TABLE 1

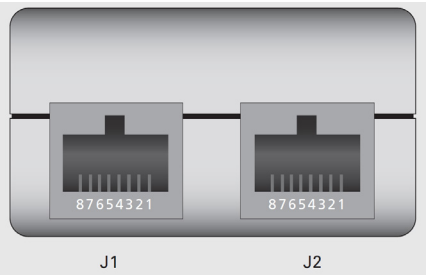
Model Number	Output Voltage	Output Current		Max Watts	Ripple & Noise
		min	max		
PW180KA4800_01	48 V	0.00 A	0.40 A	20.0 W	480 mVpk-pk

ORDERING INFORMATION TABLE 2

PW180	K	A	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	
J1	PIN 1	Data Pair 1
	PIN 2	Data Pair 1
	PIN 3	Data Pair 2
	PIN 4	+ VDC
	PIN 5	+ VDC
	PIN 6	Data Pair 2
	PIN 7	- VDC
	PIN 8	- VDC
J2	PIN 1	Data Pair 1
	PIN 2	Data Pair 1
	PIN 3	Data Pair 2
	PIN 4	No Connection
	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 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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