PW152 Universal 50 Watt Series



ITE / Switch Mode Power Supply

3 Year Warranty

- 100-250 VAC Universal Input
- Desktop Style
- Single Output to 50W
- Seven Models Available; 5V to 48V
- Regulated Output with Low Ripple
- Impact Resistant Polycarbonate Enclosure
- Modified and Custom Designs
- No Load Power Consumption < 0.75W
- Meets ENERGY STAR Program Requirements see reverse side for details





International Safety Standard Approvals





Specifications

Output Specifications			
Line and Load Voltage Regulation	Excluding cord	+/-1%	
Ripple		1% Vp-p max.	
Transient Response		0.5ms for 50% Load change Typical	
Protection		Over-current Protection (Hiccup) Short Circuit Protection	

Input Specifications		
Input Voltage Range	Universal input	100-250VAC -10%, +6%
Line Frequency		47-63Hz
Input Current	90VAC Input	1.2A max.
Protection		Internal Primary Current Fuse, Inrush Limiting

Environmental Specifications			
Thermal Performance	Operating temperature full load, no derating convectional cooling Non vented case	0° C to 40° C	
Relative Humidity	Non-condensing	5% to 95%	
Altitude		0-10,000 feet	

Canaral Specification	uno.	
General Specification	IIIS	
Topology		Switching-Fixed Frequency Flyback
Efficiency	5V and 9V 12V to 24V	70% min. ≥ 84%
Hold-up Time	@120VAC @240VAC	18ms min. 80ms min.
Dielectric Withstand		3,000VAC, 4,250VDC Primary-Secondary
Storage Temp		-30° C to 85° C
Approvals and Safety Standards		UL60950-1, IEC/EN60950-1 EMC : EN55022 / 55024 61000
MTBF		100,000 Calculated Hours
Case and Dimension		JEC#18 4.49L x 2.36W x 1.38H (in) 114.0L x 60.0W x 35.0H (mm)
Case Material		Black 94V0 Polycarbonate
Cord and Connectors		6ft. 2 Conductor, 18AWG, AULT#3 Connector. Other connectors are also available.



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For the most current data and application support visit www.slpower.com

	Output	Output Currents		Max	Ripple
Ault Part Number	Voltage	Min	Max	Watts	Vp-p max.
PW152KA05XX*	5 V	0.00 A	6.00 A	30.0 W	50 mV
PW152KA09XX*	9 V	0.00 A	5.00 A	45.0 W	90 mV
PW152KA12XX	12 V	0.00 A	4.20 A	50.4 W	120 mV
PW152KA15XX	15 V	0.00 A	3.33 A	50.0 W	150 mV
PW152KA18XX	18 V	0.00 A	2.80 A	50.4 W	180 mV
PW152KA24XX	24 V	0.00 A	2.00 A	48.0 W	240 mV
PW152KA48XX*	48 V	0.00 A	1.00 A	48.0 W	480 mV

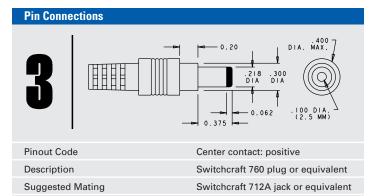
Ault Part Number Key				
PW152	K	Α	05	XX
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number

Input Configuration



IEC320 w/ground C14 (F)

Specify the Input Configuration Code in your order.



Energy Star Specifications

Power Supplies that are single voltage external AC to DC and AC to AC included with other retail products and single voltage external AC to DC or AC to AC power supplies sold separately; and consumer audio and video equipment, which includes compact audio products, DVD players and recorders as well as television adapters. (Please refer to the reverse side of data sheet for specifications and marking protocol.)

Energy-Efficiency Criteria for Active Mode

Other Connectors are available by special order

To be eligible for ENERGY STAR qualification, an external power supply must meet or exceed a minimum efficiency for Active Mode, which varies based on the model's nameplate output power. The table below outlines the equations for determining minimum average efficiency.

Nameplate Output Power Minimum Average Efficiency in Active Mode

0 to ≤ 1 watt ≥ 0.49 * Pno

> 1 to \leq 49 watts \geq [0.09 * Ln (Nameplate Output)] + 0.49

> 49 watts ≥ 0.84

Energy Consumption Criteria for No Load

The second half of the ENERGY STAR specification is the No-Load power requirement, which specifies the maximum AC power that may be used by a qualifying external power supply in the No-Load condition. Maximum power consumption levels for No-Load Mode are provided below.

Nameplate Output Power Maximum Power in No-Load

0 to < 10 watts $\leq 0.5 \text{ watts}$ $\geq 10 \text{ to} \leq 250 \text{ watts}$ $\leq 0.75 \text{ watts}$

*Does not meet Energy Star requirements



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PW152KA2403F01 PW152KA1203F01