PW153KB

Universal 40 Watt Series

SL POWER ELECTRONICS

ITE / Switch Mode Power Supply

- *100-240 VAC Universal Input*
- *Desktop Style*
- *Single Output to 40W*
- *Five Models Available; 12V to 48V*
- *Regulated Output with Low Ripple*
- *Impact Resistant Polycarbonate Enclosure*
- *Modified and Custom Designs Also Available*
- *Designed to Meet EISA Requirements — see reverse side for details*

ENERGY STAR

International Safety Standard Approvals

c UL us CE RoHS

AULT

Specifications

Output Specifications

Line and Load Regulation (Excluding cord)	Line Voltage +/-1% Load Voltage +/-5%
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	100-240VAC -10%, +10%
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

General Specifications

Topology		Switching-Fixed Frequency Flyback
Efficiency		Designed to Meet EISA Requirements — see reverse side
Hold-up Time	@120VAC @240VAC	18ms min. 80ms min.
Dielectric Withstand		3,000VAC or 4,250VDC Primary-Secondary 1,500VAC or 2,150VDC Primary-F.G.; 500VDC Secondary-F.G.
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		Desktop style 3.98L x 2.4W x 1.34H (in) 101.0L x 61.0W x 34.0H (mm)
Case Material		Black 94V0 Polycarbonate
Cord and Connectors		18AWG 1,800mm 2 Conductor. Ault #3 Connector. Other connectors are also available.

SL Power Electronics Corp • 6050 King Drive • Ventura, CA 93003 • Phone:805.486.4565 • Fax:858.712.2040 • Email:info@slpower.com • www.slpower.com

PW153KB

Universal 40 Watt Series

ITE / Switch Mode Power Supply

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

Ault Part Number	Output Voltage	Output Current Max	Max Watts	Ripple Vp-p max.
PW153KB12XX	12 V	3.40 A	40.8 W	120 mV
PW153KB15XX	15 V	2.70 A	40.5 W	150 mV
PW153KB18XX	18 V	2.20 A	40.0 W	180 mV
PW153KB24XX	24 V	1.70 A	40.8 W	240 mV
PW153KB48XX	48 V	0.83 A	39.8 W	480 mV

Ault Part Number Key

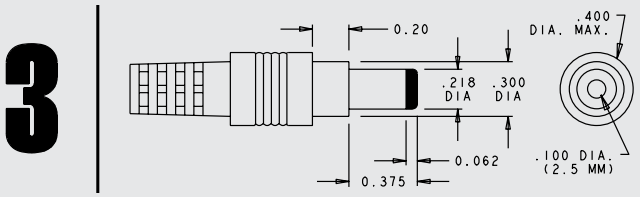
PW153	K	B	12	XX
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number

Input Configuration

IEC320
w/ground
C14
(F)

Specify the Input Configuration Code in your order.

Pin Connections



Pinout Code	Center contact: positive
Description	Switchcraft 760 plug or equivalent
Suggested Mating	Switchcraft 712A jack or equivalent

Other Connectors are available by special order.

2007 Energy Independence and Security Act – EISA

The Energy Independence and Security Act of 2007 was passed in December of 2007 and addresses minimum efficiency standards and standby levels for Class A external power supplies that are 250 watts and under. This law stipulates that external power supplies manufactured on July 1, 2008 and beyond meet certain minimum efficiency and standby criteria as defined below.

Minimum Efficiency Criteria
Active mode is defined as when a power supply's input is connected to line voltage AC and its output is connected to a DC or AC load drawing a portion of the product's power output. Depending on the power rating for the power supply, it must meet the minimum efficiency criteria outlined below.

Energy-Efficiency Criteria for Active Mode:

output power on adapter label	minimum average efficiency percentage
0 to ≤ less than 1 watt	≥ 0.50 * output power on adapter label
> 1 to ≤ 51 watts	≥ [0.09 * Ln (output power on adapter label)] + 0.50
> 51 watts	≥ 0.85

The power supply must also meet a requirement for when its input is connected to a line voltage AC but its output is not connected to a load. Depending on the power output of the supply, it must keep its energy consumption below the following values.

Energy Consumption Criteria for No Load Mode:

output power on adapter label	maximum power consumption in no-load mode
0 to < 250 watts	≤ 0.5 watts

SL Power Electronics Corp • 6050 King Drive • Ventura, CA 93003 • Phone:805.486.4565 • Fax:858.712.2040 • Email:info@slpower.com • www.slpower.com

Rev.06/3/08