

PW17x and MW17x Series Switch Mode Power Supplies



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PW174KB

Universal 60-65 Watt Series



ITE / Switch Mode Power Supply

3 Year Warranty

- 100-240 VAC Universal Input
- Desktop Style
- Single Output to 65W
- Six Models Available; 9V to 48V
- Regulated Output with Low Ripple
- Impact Resistant Polycarbonate Enclosure
- Modified and Custom Designs
- Designed to Meet EISA Requirements — see reverse side for details



International Safety Standard Approvals



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	1.5A 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 18ms min. @240VAC 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 4.20L x 2.60W x 1.46H (in) 107.0L x 66.0W x 37.0H (mm)
Case Material	LP6 - Desktop Black 94V0 Polycarbonate
Cord and Connectors	18AWG 1,500mm 2 Conductor. Ault #3 Connector. Other connectors are also available.

PW174KB

Universal 60-65 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.
PW174KB09XX	9 V	6.00 A	54.0 W	90 mV
PW174KB12XX	12 V	5.00 A	60.0 W	120 mV
PW174KB15XX	15 V	4.00 A	60.0 W	180 mV
PW174KB18XX	18 V	3.40 A	61.2 W	180 mV
PW174KB24XX	24 V	2.70 A	64.8 W	240 mV
PW174KB48XX	48 V	1.46 A	70.0 W	480 mV

Ault Part Number Key

PW174 K B 09 XX

Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number

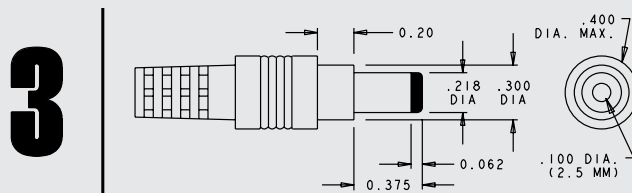
Input Configuration



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 \leq less than 1 watt	≥ 0.50 * output power on adapter label
> 1 to ≤ 51 watts	$\geq [0.09 * \ln(\text{output power on adapter label})] + 0.50$
> 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



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Rev.06/3/08

MW174KB

Universal 40-65 Watt Series



Medical / Switch Mode Power Supply

3 Year Warranty

- 100-240 VAC Universal Input
- Desktop Style
- Single Output to 65W
- Four Models Available; 12V to 24V
- Regulated Output with Low Ripple
- Impact Resistant Polycarbonate Enclosure
- Modified and Custom Designs
- Designed to Meet EISA Requirements — see reverse side for details



International Safety Standard Approvals



Specifications

Output Specifications			General Specifications		
Line and Load Regulation (Excluding cord)		Line Voltage +/-1% Load Voltage +/-5%	Topology		Switching-Fixed Frequency Flyback
Ripple		1% Vp-p max.	Efficiency		Designed to Meet EISA Requirements — see reverse side
Transient Response		0.5ms for 50% Load change Typical	Hold-up Time @120VAC		18ms min.
Protection		Over-current Protection (Hiccup) Short Circuit Protection	Dielectric Withstand		4,000VAC or 5,656VDC Primary-Secondary; 1,500VAC or 2,150VDC Primary-F.G; 500VDC Secondary-F.G
Input Specifications			Storage Temp		-30° C to 85° C
Input Voltage Range	Universal input	100-240VAC -10%, +10%	Approvals and Safety Standards	Australian, Japanese certification available - extra fees apply.	UL60601-1, IEC/EN60601-1 EMC : EN60601-1-2 EN55024
Line Frequency		47-63Hz	MTBF		100,000 Calculated Hours
Input Current	90VAC Input	1.5A max.	Case and Dimension		Desktop Style 4.20L x 2.60W x 1.46H (in) 107.0L x 66.0W x 37.0H (mm)
Protection		Internal Primary Current Fuse, Inrush Limiting	Case Material		Black 94V0 Polycarbonate
Environmental Specifications			Cord and Connectors		18 AWG 1,500mm 2 Conductor. Ault #3 Connector. Other connectors are also available.
Thermal Performance	Operating temperature full load, no derating convictional cooling Non vented case	0° C to 40° C			
Relative Humidity	Non-condensing	5% to 95%			
Altitude		0-10,000 feet			

MW174KB

Universal 40-65 Watt Series

Medical / 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.
MW174KB12XX	12 V	5.00 A	60.0 W	120 mV
MW174KB15XX	15 V	4.00 A	60.0 W	150 mV
MW174KB18XX	18 V	3.40 A	61.2 W	180 mV
MW174KB24XX	24 V	2.70 A	64.8 W	240 mV

Ault Part Number Key

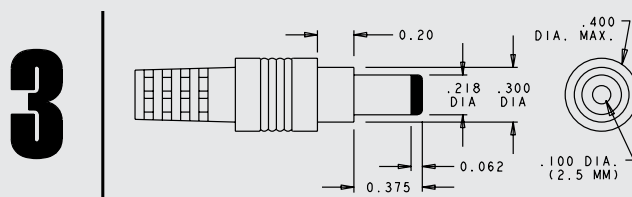
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number
MW174	K	B	12	XX

Input Configuration



IEC320
w/ground
C14
(F)

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 \leq less than 1 watt	$\geq 0.50 * \text{output power on adapter label}$
> 1 to ≤ 51 watts	$\geq [0.09 * \text{Ln (output power on adapter label)}] + 0.50$
> 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



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Rev.6/9/08

PW173KB

Universal 20-32 Watt Series



ITE / Switch Mode Power Supply

3 Year Warranty

- 100-240 VAC Universal Input
- Desktop and Wall Plug Style
- Single Output to 32W
- Eight Models Available; 5V to 24V
- Regulated Output with Low Ripple
- Impact Resistant Polycarbonate Enclosure
- Modified and Custom Designs
- No Load Power Consumption < 0.50W
- Designed to Meet EISA Requirements — see reverse side for details



International Safety Standard Approvals



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	1.0A max.
Protection		Dual 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 @115VAC	18ms 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	3.74L x 2.13W x 1.26H (in) 95.0L x 54.0W x 32.0H (mm)
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	18AWG 1,800mm 2 Conductor. (5V Model: 1,500mm). Ault #3 Connector. Other connectors are also available.

PW173KB

Universal 20-32 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.
PW173KB05XX	5 V	4.00 A	20.0 W	50 mV
PW173KB07XX	7.5 V	3.00 A	22.5 W	70 mV
PW173KB09XX	9 V	3.00 A	27.0 W	90 mV
PW173KB12XX	12 V	2.50 A	30.0 W	120 mV
PW173KB15XX	15 V	2.00 A	30.0 W	150 mV
PW173KB18XX	18 V	1.67 A	30.1 W	180 mV
PW173KB24XX	24 V	1.33 A	31.9 W	240 mV
PW173KB48XX	48 V	0.67 A	32.2 W	480 mV

Ault Part Number Key

PW173	K	B	05	XX
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number

Input Configuration



IEC320
w/ground
C14
(F)



IEC320
w/o ground
C18
(Q)



Shaver
C8
(N)



N. America/
Japan
(B)



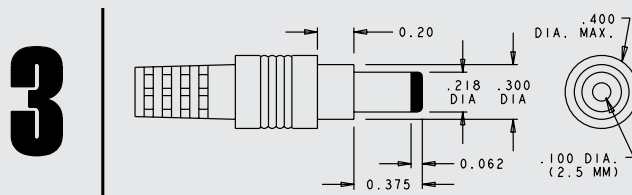
Europe
(M)



United
Kingdom
(G)

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



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Rev.06/3/08

MW173KB

Universal 20-32 Watt Series



Medical / Switch Mode Power Supply

3 Year Warranty

- 100-240 VAC Universal Input
- Desktop and Wall Plug Style
- Single Output to 32W
- Seven Models Available; 5V to 24V
- Regulated Output with Low Ripple
- Impact Resistant Polycarbonate Enclosure
- Modified and Custom Designs
- No Load Power Consumption < 0.50W
- Designed to Meet EISA Requirements — see reverse side for details



International Safety Standard Approvals



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	1.0A max.
Protection		Dual 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	@115VAC 18ms min.
Dielectric Withstand	4,000VAC, 5,656VDC Primary-Secondary
Storage Temp	-30° C to 85° C
Approvals and Safety Standards	UL60601-1, IEC/EN60601-1 EMC : EN60601-1-2/EN55024
MTBF	100,000 Calculated Hours
Case and Dimension	Desktop Style 3.74L x 2.13W x 1.26H (in) 95.0L x 54.0W x 32.0H (mm)
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	18 AWG 1,800mm 2 Conductor. (5V Model: 1,500mm). Ault #3 Connector. Other connectors are also available.

MW173KB







Universal 20-32 Watt Series

Medical / Switch Mode Power Supply

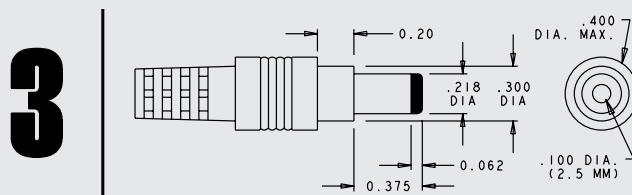
For the most current data and application support visit www.slpower.com

Ault Part Number	Output Voltage	Output Current Max	Max Watts	Ripple Vp-p max.
MW173KB05XX	5 V	4.00 A	20.0 W	50 mV
MW173KB07XX	7.5 V	3.00 A	22.5 W	75 mV
MW173KB09XX	9 V	3.00 A	27.0 W	90 mV
MW173KB12XX	12 V	2.50 A	30.0 W	120 mV
MW173KB15XX	15 V	2.00 A	30.0 W	150 mV
MW173KB18XX	18 V	1.67 A	30.1 W	180 mV
MW173KB24XX	24 V	1.33 A	31.9 W	240 mV

Ault Part Number Key				
MW173	K	B	03	XX
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number

Input Configuration					
					
IEC320 w/ground C14 (F)	IEC320 w/o ground C18 (Q)	Shaver C8 (N)	N. America/ Japan (B)	Europe (M)	United Kingdom (G)
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



PW172KB

Universal 15-19 Watt Series



ITE / Switch Mode Power Supply

3 Year Warranty

- 100-240 VAC Universal Input
- Desktop and Wall Plug Style with Interchangeable Blades* (Kit Sold Separately)
- Single Output to 19W
- Eight Models Available; 5V to 48V
- Regulated Output with Low Ripple
- Impact Resistant Polycarbonate Enclosure
- Modified and Custom Designs
- No Load Power Consumption < 0.50W
- Designed to Meet EISA Requirements — see reverse side for details



*Photo shows optional blades kit



International Safety Standard Approvals



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	0.5A 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 @115VAC	18ms 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 3.3L x 1.81W x 1.26H (in) 84.0L x 46.0W x 32.0H (mm)
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	18AWG 1,800mm 2 Conductor. (5V Model: 1,500mm). Ault #3 Connector. Other connectors are also available.

PW172KB

Universal 15-19 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.
PW172KB05XX	5 V	3.00 A	15.0 W	50 mV
PW172KB06XX	6 V	2.50 A	15.0 W	60 mV
PW172KB09XX	9 V	2.00 A	18.0 W	90 mV
PW172KB12XX	12 V	1.50 A	18.0 W	120 mV
PW172KB15XX	15 V	1.20 A	18.0 W	150 mV
PW172KB18XX	18 V	1.00 A	18.0 W	180 mV
PW172KB24XX	24 V	0.75 A	18.0 W	240 mV
PW172KB48XX	48 V	0.40 A	19.2 W	480 mV

Ault Part Number Key

PW172	K	B	05	XX
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number

Input Configuration



IEC320
w/ground
C14
(F)



IEC320
w/o ground
C18
(Q)



Shaver
C8
(N)



N. America/
Japan
(B)



Europe
(M)



United
Kingdom
(G)

Specify the Input Configuration Code in your order.

Optional AC Interchangeable Blade Kit - KT1027K



Europe
(M)



United
Kingdom
(G)

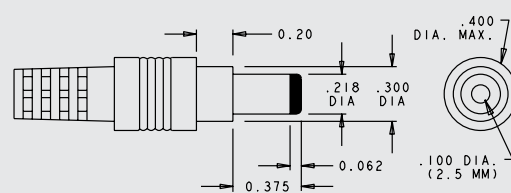


Australian
(E)

Blade Kit Part Number - KT1027K

Pin Connections

3



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



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Rev.06/3/08

MW172KB

Universal 15-18 Watt Series



Medical / Switch Mode Power Supply

3 Year Warranty

- 100-240 VAC Universal Input
- Desktop and Wall Plug Style with Interchangeable Blades* (Kit Sold Separately)
- Single Output to 18W
- Seven Models Available; 5V to 24V
- Regulated Output with Low Ripple
- Impact Resistant Polycarbonate Enclosure
- Modified and Custom Designs
- No Load Power Consumption < 0.50W
- Designed to Meet EISA Requirements — see reverse side for details



*Photo shows optional blades kit



International Safety Standard Approvals



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	0.5A 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 @115VAC	18ms min.
Dielectric Withstand	4,000VAC or 5,656VDC 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	UL60601-1, IEC/EN60601-1 EMC : EN60601-1-2/EN55024
MTBF	100,000 Calculated Hours
Case and Dimension	Desktop Style 3.3L x 1.81W x 1.26H (in) 84.0L x 46.0W x 32.0H (mm)
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	18 AWG 1,800mm 2 Conductor. (5V Model: 1,500mm). Ault #3 Connector. Other connectors are also available.

MW172KB

Universal 15-18 Watt Series

Medical / 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.
MW172KB05XX	5 V	3.00 A	15.0 W	50 mV
MW172KB06XX	6 V	2.50 A	15.0 W	60 mV
MW172KB09XX	9 V	2.00 A	18.0 W	90 mV
MW172KB12XX	12 V	1.5 A	18.0 W	120 mV
MW172KB15XX	15 V	1.20 A	18.0 W	150 mV
MW172KB18XX	18 V	1.00 A	18.0 W	180 mV
MW172KB24XX	24 V	0.75 A	18.0 W	240 mV

Ault Part Number Key

MW172	K	B	03	XX
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number

Input Configuration

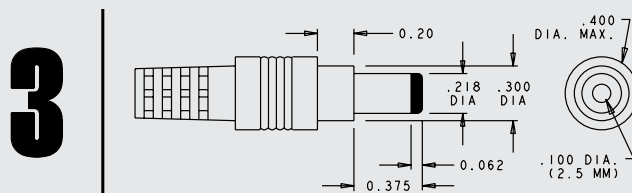
					
IEC320 w/ground C14 (F)	IEC320 w/o ground C18 (Q)	Shaver C8 (N)	N. America/ Japan (B)	Europe (M)	United Kingdom (G)

Specify the Input Configuration Code in your order.

Optional AC Interchangeable Blade Kit - KT1027K

		
Europe (M)	United Kingdom (G)	Australian (E)

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



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Rev.6/9/08

PW170KB

Universal 10-15 Watt Series



ITE / Switch Mode Power Supply

3 Year Warranty

- 100-240 VAC Universal Input
- Desktop and Wall Plug Style with Interchangeable Blades* (Kit Sold Separately)
- Single Output to 15W
- Eight Models Available; 5V to 48V
- Regulated Output with Low Ripple
- Impact Resistant Polycarbonate Enclosure
- Modified and Custom Designs
- No Load Power Consumption < 0.50W
- Designed to Meet EISA Requirements — see reverse side for details



*Photo shows optional blades kit



International Safety Standard Approvals



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	0.4A 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	@115VAC 18ms 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 3.30L x 1.81W x 1.26H (in) 84.0L x 46.0W x 32.0H (mm)
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	18AWG 1,800mm 2 Conductor. (5V, 6V Model: 1,500mm). Ault #3 Connector. Other connectors are also available.

PW170KB

Universal 10-15 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.
PW170KB05XX	5 V	2.00 A	10.0 W	50 mV
PW170KB06XX	6 V	1.67 A	12.0 W	60 mV
PW170KB09XX	9 V	1.50 A	13.5 W	90 mV
PW170KB12XX	12 V	1.20 A	15.0 W	120 mV
PW170KB15XX	15 V	1.00 A	15.0 W	150 mV
PW170KB18XX	18 V	0.84 A	15.0 W	180 mV
PW170KB24XX	24 V	0.63 A	15.12 W	240 mV
PW170KB48XX	48 V	0.32 A	14.88 W	480 mV

Ault Part Number Key

PW170	K	B	03	XX
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number

Input Configuration

					
IEC320 w/ground C14 (F)	IEC320 w/o ground C18 (Q)	Shaver C8 (N)	N. America/ Japan (B)	Europe (M)	United Kingdom (G)

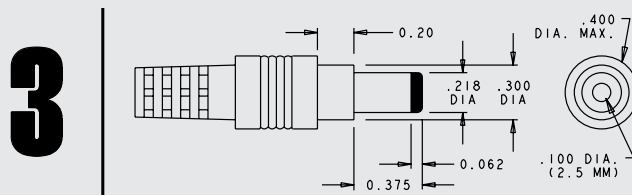
Specify the Input Configuration Code in your order.

Optional AC Interchangeable Blade Kit - KT1027K

		
Europe (M)	United Kingdom (G)	Australian (E)

Blade Kit Part Number - KT1027K

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



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Rev.06/3/08

MW170KB

Universal 10-15 Watt Series



Medical / Switch Mode Power Supply

3 Year Warranty

- 100-240 VAC Universal Input
- Desktop and Wall Plug Style with Interchangeable Blades* (Kit Sold Separately)
- Single Output to 15W
- Seven Models Available; 5V to 24V
- Regulated Output with Low Ripple
- Impact Resistant Polycarbonate Enclosure
- Modified and Custom Designs
- No Load Power Consumption < 0.50W
- Designed to Meet EISA Requirements — see reverse side for details



*Photo shows optional blades kit



International Safety Standard Approvals



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	0.4A 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	@115VAC 18ms min.
Dielectric Withstand	4,000VAC or 5,656VDC 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	UL60601-1 IEC/EN60601-1 EMC : EN60601-1-2/EN55024
MTBF	100,000 Calculated Hours
Case and Dimension	Desktop Style 3.3L x 1.81W x 1.26H (in) 77.7L x 46.0W x 33.0H (mm)
Case Material	Black 94V0 Polycarbonate
Cord and Connectors	18 AWG 1,800mm 2 Conductor. (5V Model: 1,500mm). Ault #3 Connector. Other connectors are also available.

MW170KB

Universal 10-15 Watt Series

Medical / 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.
MW170KB05XX	5 V	2.00 A	10.0 W	50 mV
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MW170KB09XX	9 V	1.50 A	13.5 W	90 mV
MW170KB12XX	12 V	1.20 A	14.4 W	120 mV
MW170KB15XX	15 V	1.00 A	15.0 W	150 mV
MW170KB18XX	18 V	0.84 A	15.1 W	180 mV
MW170KB24XX	24 V	0.63 A	15.1 W	240 mV

Ault Part Number Key

MW170	K	B	03	XX
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number

Input Configuration



IEC320
w/ground
C14
(F)



IEC320
w/o ground
C18
(Q)



Shaver
C8
(N)



N. America/
Japan
(B)



Europe
(M)



United
Kingdom
(G)

Specify the Input Configuration Code in your order.

Optional AC Interchangeable Blade Kit - KT1027K



Europe
(M)

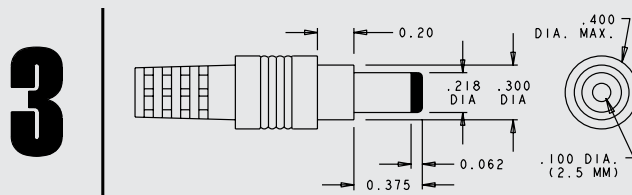


United
Kingdom
(G)



Australian
(E)

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:

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> 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



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