

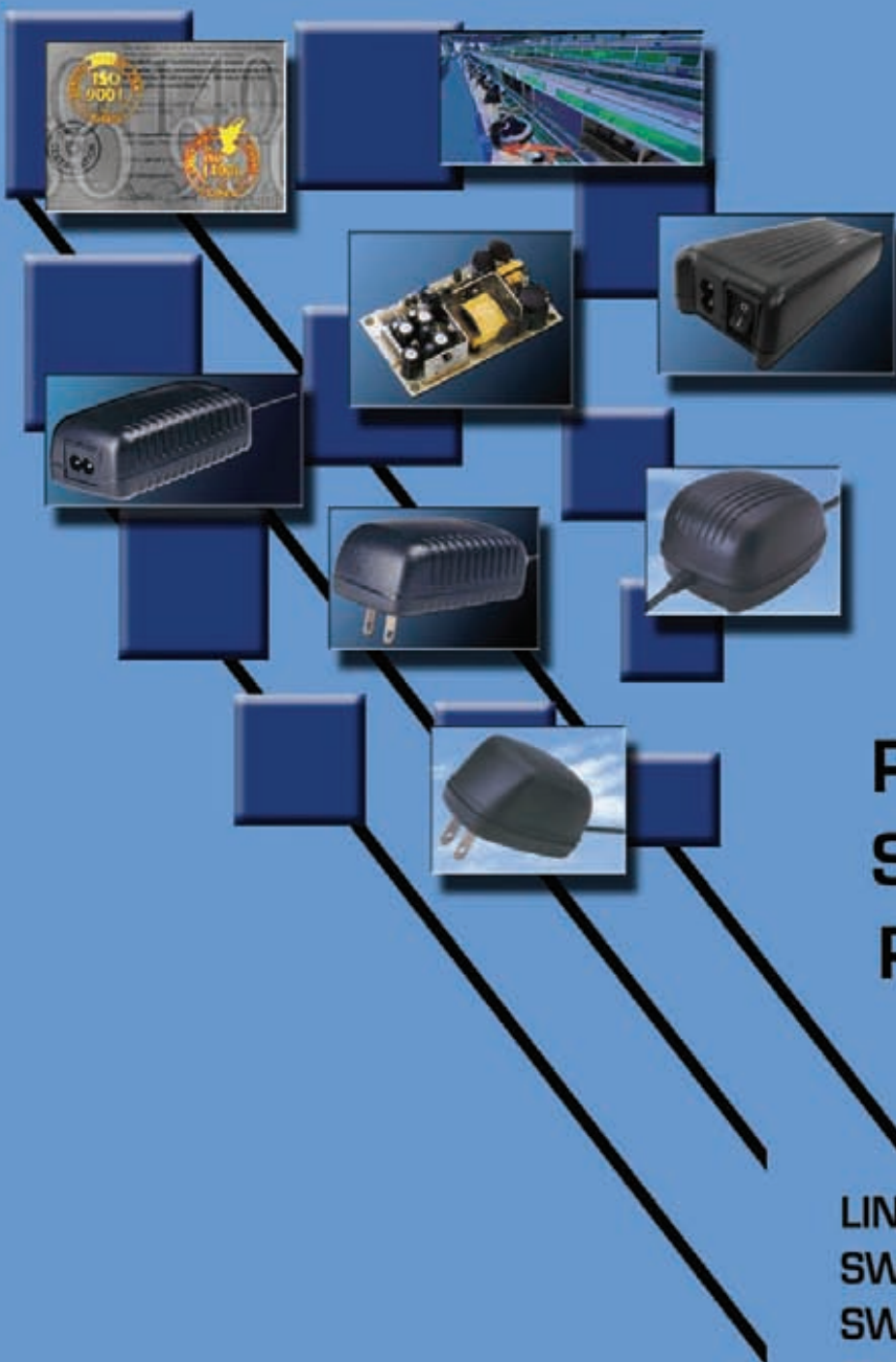


FE Technology Inc.

**Power Adapters
Smart Chargers
Power Supplies**

**LINEAR ADAPTERS - AC & DC
SWITCHING POWER SUPPLIES
SWITCHING ADAPTERS
BATTERY CHARGERS**

**Industry Standards
International Styles
Safety Approvals
Custom Designs
JIT Scheduling**





5Watts Series Switching Adapter (For IT)

Product Highlights:

- Complete, inexpensive, self-contained regulated power source for use.
- Super power supply, fixed frequency chip circuit ensures stable, long-lasting output required by mobile electronics, such as mobile phones, PDAs, Digital cameras, CD/MP3 players, and much more.
- Extra safe design, all with their respective safety approvals.
- Ultra low no-load /standby power consumption, meeting EC 2005 green power requirements.
- Light, sleek, and compact design.
- On LED power indicator.(Optional)
- High efficiency circuitry that generates little heat and does not need heat sinking.
- Built-in EMI filter.

Protection:

- Short circuit protection.
- Over voltage protection.
- Over current protection.
- Thermal shutdown capability.

Reliability:

- Burn-in: 100% full load, 40± 5°C, 4Hrs min..
- Leakage Current: 0.25mA max. at 254VAC.
- Withstanding Voltage: (between primary &secondary) 3000VAC 1 minute 10mA max.
- MTBF: meet MIL-HDBK-217F over 50K hours, full load, 25°C



Safety Approvals:

- UL60950 3rd edition CAN/CSA C22.2 NO.60950
- EN60950:2000
- CE (Low Voltage Directive)
- AS/NZS 60950:2000
- PSE IEC60950
- GB4943-2001

Emissions:

- FCC Part15 class B
- EN55022 class B
- AS/NZS3548, AS/NZS4251.1 class B
- VCCI class B
- CNS13438 class B
- GB9254-1998/GB17625.1-2003
- CISPR22 class B

Immunity:

- EN55024/A1:2001
- Electrostatic discharge: 61000-4-2
- Radiated electromagnetic fields: 61000-4-3
- Fast transients(burst): 61000-4-4
- Surge transients: 61000-4-5
- Conducted disturbance: 61000-4-6
- Voltage dips, interruptions & variations: 61000-4-11

Electrical Specifications: (Absolute Maximum Rating)

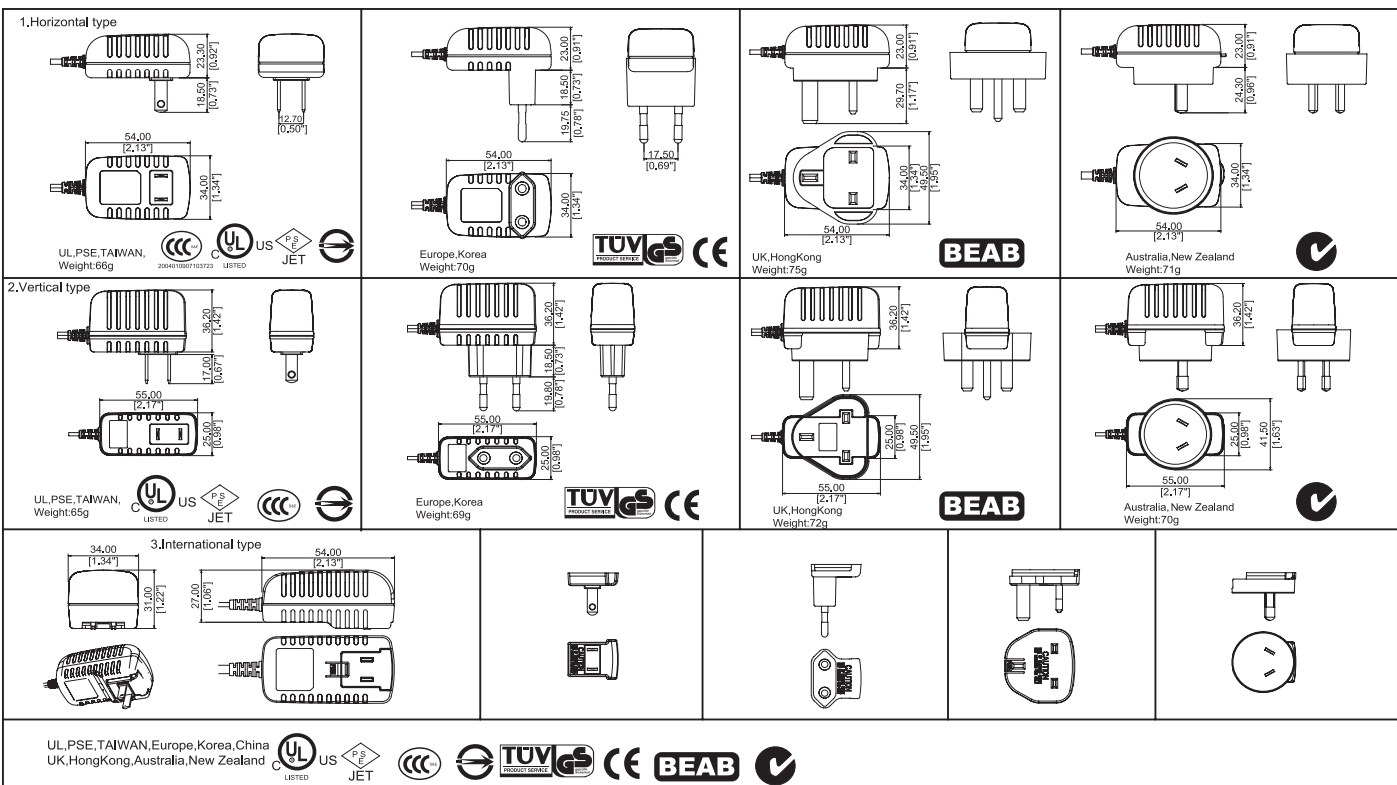
Description	Symbol	Min	Typ	Max	Units	Comment
Input						
Voltage	V_{IN}	90	120/240	264	V_{AC}	2 Wire No Protective Ground
Frequency	F_{LINE}	47	50/60	63	Hz	
No-load Input Power(230VAC)	P			0.3	W	
Efficiency	η		70		%	
Inrush Current(240Vac)	I		25		A	Cold 25°C
Environmental						
Operating Temperature	T	0	/	40	°C	Free convection, Sea level
Non-operating temperature	T	-20	/	80	°C	Free convection,Sea level
Operating humidity	T	10	/	90	%RH	Non condensing
Non-operating humidity	T	10	/	90	%RH	Non condensing

Typical model list :

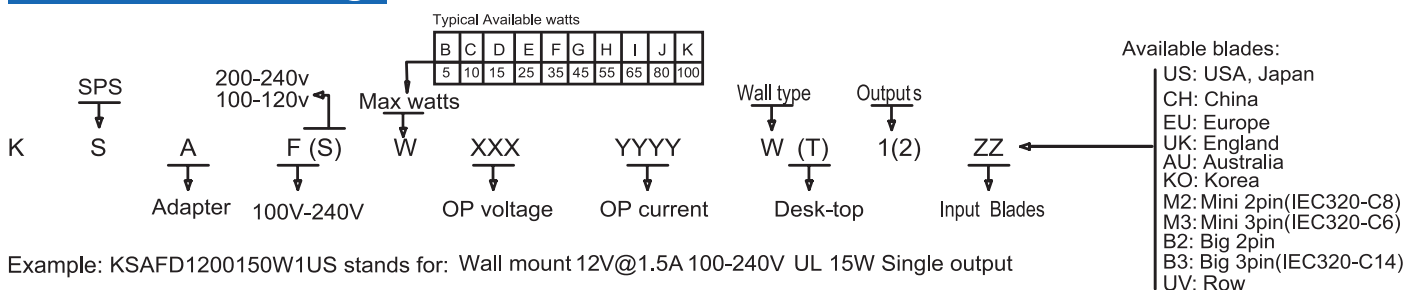
INPUT CONDITION		DC OUTPUT VOLTAGE	DC OUTPUT CURRENT	OUTPUT VOLTAGE TOLERANCE	RIPPLE & NOISE	REGULATION		MAXIMUM OUTPUT POWER
						LINE	LOAD	
Input volatge: 90-264Vac Frequency: 47-63Hz Input current: 0.15A	1	21-24V	0-0.24A	5%	150mV	±1%	±5%	5W
	2	16-20V	0-0.31A	5%	150mV	±1%	±5%	5W
	3	10-15V	0-0.5A	5%	100mV	±1%	±5%	5W
	4	9.4-9.9V	0-0.53A	5%	100mV	±1%	±5%	5W
	5	8.8-9.3V	0-0.57A	5%	80mV	±1%	±5%	5W
	6	8.2-8.7V	0-0.61A	5%	80mV	±1%	±5%	5W
	7	7.6-8.1V	0-0.66A	5%	70mV	±1%	±5%	5W
	8	7.0-7.5V	0-0.71A	5%	70mV	±1%	±5%	5W
	9	6.4-6.9V	0-0.78A	5%	60mV	±1%	±5%	5W
	10	5.8-6.3V	0-0.86A	5%	60mV	±1%	±5%	5W
	11	5.2-5.7V	0-0.96A	5%	60mV	±1%	±5%	5W
	12	4.6-5.1V	0-1.0A	5%	50mV	±1%	±5%	5W
	13	4.0-4.5V	0-1.0A	5%	50mV	±1%	±5%	4.5W
	14	3.4-3.9V	0-1.0A	5%	50mV	±1%	±5%	3.9W
	15	2.8-3.3V	0-1.0A	5%	50mV	±1%	±5%	3.3W

REMARK: (Ripple and noise) 1. Measurements shall be made with an oscilloscope with 20MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.

Mechanical Specifications:



Part Number Coding:





6 Watts Series Switching Adapter (For IT)

Product Highlights:

- Complete, inexpensive, self-contained regulated power source for use .
- Super power supply, fixed frequency chip circuit ensures stable, long-lasting output required by mobile electronics, such as mobile phones, PDAs, Digital cameras, CD/MP3 players, and much more.
- Extra safe design, all with their respective safety approvals.
- Ultra low no-load /standby power consumption, meeting EC 2005 green power requirements.
- Light, sleek, and compact design.
- On LED power indicator.(Optional)
- High efficiency circuitry that generates little heat and does not need heat sinking.
- Built-in EMI filter.

Protection:

- Short circuit protection.
- Over voltage protection.
- Over current protection.
- Thermal shutdown capability.

Reliability:

- Burn-in: 100% full load, 40± 5°C, 4Hrs min..
- Leakage Current: 0.25mA max. at 254VAC.
- Withstanding Voltage: (between primary &secondary) 3000VAC 1 minute 10mA max.
- MTBF: meet MIL-HDBK-217F over 50K hours, full load, 25°C



Safety Approvals:

- UL60950-1, CSA C22.2 NO.60950-1-03
- EN60950-1/A11:2004
- AS/NZS60950.1:2003
- BS EN60950-1:2002
- GB4943-2001

Emissions:

- FCC Part15 class B
- EN55022 class B
- AS/NZS3548, AS/NZS4251.1 class B
- VCCI class B
- CNS13438 class B
- GB9254-1998/GB17625.1-2003
- CISPR22 class B

Immunity:

- EN55024/A1:2001
- Electrostatic discharge: 61000-4-2
- Radiated electromagnetic fields: 61000-4-3
- Fast transients(burst): 61000-4-4
- Surge transients: 61000-4-5
- Conducted disturbance: 61000-4-6
- Voltage dips, interruptions & variations: 61000-4-11

Electrical Specifications: (Absolute Maximum Rating)

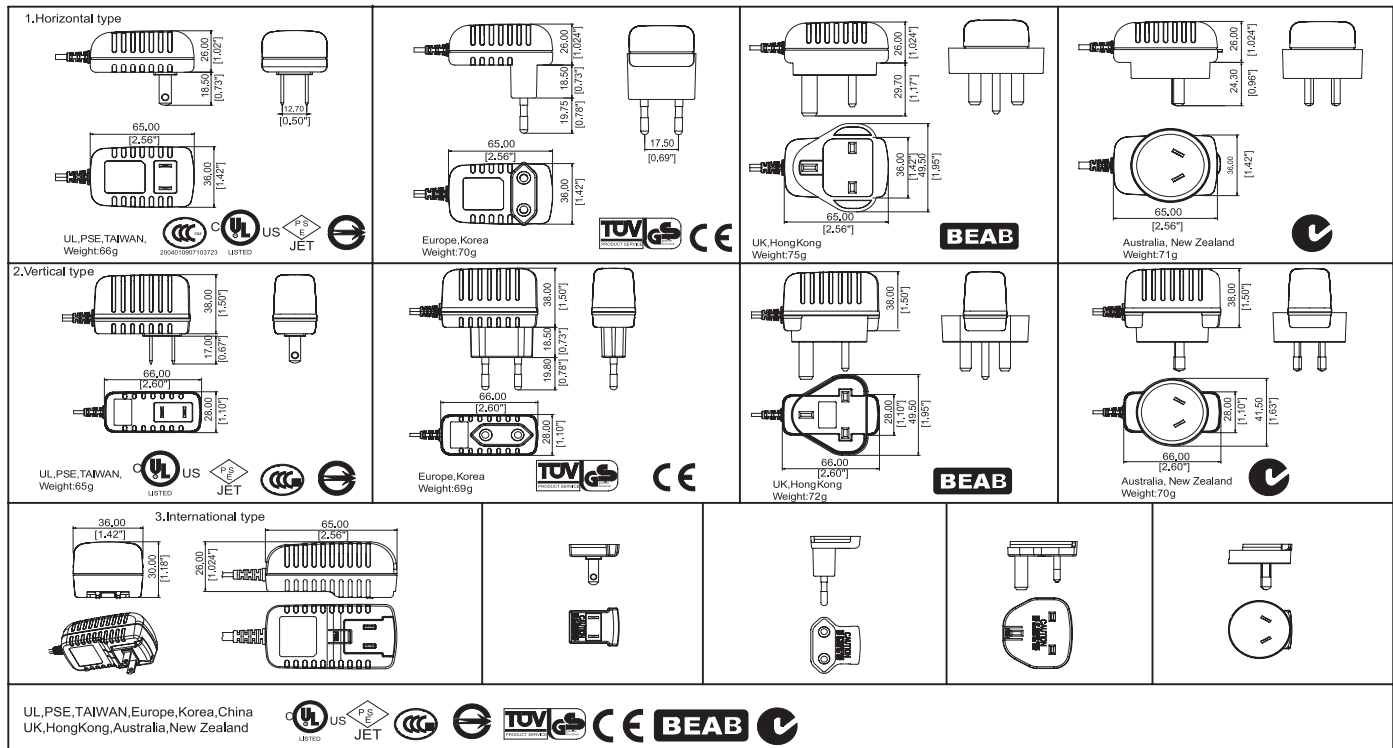
Description	Symbol	Min	Typ	Max	Units	Comment
Input						
Voltage	V_{IN}	90	120/240	264	V_{AC}	2 Wire No Protective Ground
Frequency	F_{LINE}	47	50/60	63	Hz	
No-load Input Power(230VAC)	P			0.3	W	
Efficiency	η		70		%	
Inrush Current(240Vac)	I		25		A	Cold 25°C
Environmental						
Operating Temperature	T	0	/	40	°C	Free convection, Sea level
Non-operating temperature	T	-20	/	80	°C	Free convection,Sea level
Operating humidity	T	10	/	90	%RH	Non condensing
Non-operating humidity	T	10	/	90	%RH	Non condensing

Typical model list :

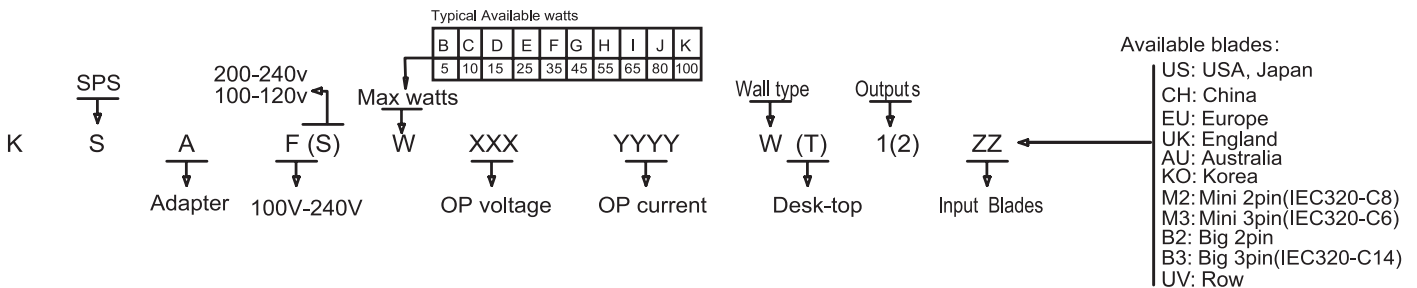
INPUT CONDITION		DC OUTPUT VOLTAGE	DC OUTPUT CURRENT	OUTPUT VOLTAGE TOLERANCE	RIPPLE & NOISES	REGULATION		MAXIMUM OUTPUT POWER
						LINE	LOAD	
	1	15.3-16V	0-0.39A	5%	100mV	±1%	±5%	6 W
Input volatge: 90-264Vac Frequency: 47-63Hz Input current: 0.18A	2	12.2-15.2V	0-0.49A	5%	100mV	±1%	±5%	6 W
	3	10.2-12.1V	0-0.59A	5%	100mV	±1%	±5%	6 W
	4	8.7-10.1V	0-0.69A	5%	80mV	±1%	±5%	6 W
	5	7.6-8.6V	0-0.79A	5%	70mV	±1%	±5%	6 W
	6	6.8-7.5V	0-0.88A	5%	70mV	±1%	±5%	6 W
	7	6.1-6.7V	0-0.98A	5%	60mV	±1%	±5%	6 W
	8	5.1-6.0V	0-1.18A	5%	60mV	±1%	±5%	6 W
	9	3.0-5.0V	0-1.2A	5%	50mV	±1%	±5%	6 W

REMARK: (Ripple and noise) 1. Measurements shall be made with an oscilloscope with 20MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.

Mechanical Specifications:



Part Number Coding:



Example: KSAFD1200150W1US stands for: Wall mount 12V@1.5A 100-240V UL 15W Single output



7.5Watts Series Switching Adapter (For IT)

Product Highlights:

- Complete, inexpensive, self-contained regulated power source for use.
- Super power supply, fixed frequency chip circuit ensures stable, long-lasting output required by mobile electronics, such as mobile phones, PDAs, Digital cameras, CD/MP3 players, and much more.
- Extra safe design, all with their respective safety approvals.
- Ultra low no-load /standby power consumption, meeting EC 2005 green power requirements.
- Light, sleek, and compact design.
- On LED power indicator.(Optional)
- High efficiency circuitry that generates little heat and does not need heat sinking.
- Built-in EMI filter.

Protection:

- Short circuit protection.
- Over voltage protection.
- Over current protection.
- Thermal shutdown capability.

Reliability:

- Burn-in: 100% full load, 40± 5°C, 4Hrs min..
- Leakage Current: 0.25mA max. at 254VAC.
- Withstanding Voltage: (between primary & secondary) 3000VAC 1 minute 10mA max.
- MTBF: meet MIL-HDBK-217F over 50K hours, full load, 25°C



Safety Approvals:

- UL60950 3rd edition CAN/CSA C22.2 NO.60950
- EN60950:2000
- CE (Low Voltage Directive)
- AS/NZS 60950:2000
- PSE IEC60950
- GB4943-2001

Emissions:

- FCC Part15 class B
- EN55022 class B
- AS/NZS3548, AS/NZS4251.1 class B
- VCCI class B
- CNS13438 class B
- GB9254-1998/GB17625.1-2003
- CISPR22 class B

Immunity:

- EN55024/A1:2001
- Electrostatic discharge: 61000-4-2
- Radiated electromagnetic fields: 61000-4-3
- Fast transients(burst): 61000-4-4
- Surge transients: 61000-4-5
- Conducted disturbance: 61000-4-6
- Voltage dips, interruptions & variations: 61000-4-11

Electrical Specifications: (Absolute Maximum Rating)

Description	Symbol	Min	Typ	Max	Units	Comment
Input						
Voltage	V_{IN}	90	120/240	264	V_{AC}	2 Wire No Protective Ground
Frequency	F_{LINE}	47	50/60	63	Hz	
No-load Input Power(230VAC)	P			0.3	W	
Efficiency	η		70		%	
Inrush Current(240Vac)	I		25		A	Cold 25°C
Environmental						
Operating Temperature	T	0	/	40	°C	Free convection, Sea level
Non-operating temperature	T	-20	/	80	°C	Free convection, Sea level
Operating humidity	T	10	/	90	%RH	Non condensing
Non-operating humidity	T	10	/	90	%RH	Non condensing



10watts Series Switching Adapter(For IT)



Product Highlights:

- Complete, inexpensive, self-contained regulated power source.
- Super power supply, fixed frequency chip circuit ensures stable, long-lasting output required by any mobile electronics, such as mobile phones, PDAs, Digital cameras, CD/MP3 players, Walkie-talkie, tester machines, HUB, Modem, Scanner, Printer and much more.
- Extra safe design, all with their respective safety approvals .
- Ultra low no-load /standby power consumption, meeting EC 2005 green power requirements.
- Light, sleek, and compact design.
- On LED power indicator (Optional).
- High efficiency circuitry that generates little heat.
- Built-in EMI filter.

Protection:

- Short circuit protection.
- Over voltage protection.
- Over current protection.
- Thermal shutdown capability.

Reliability:

- Burn-in: 100% full load, 40± 5°C, 4Hrs min..
- Leakage Current: 0.25mA max. at 254VAC.
- Withstanding Voltage: (between primary &secondary) 3000VAC 1 minute 10mA max.
- MTBF: meet MIL-HDBK-217F over 50K hours, full load, 25°C

Safety Approvals:

- UL60950-1, CSA C22.2 NO.60950-1-03
- EN60950-1/A11:2004
- AS/NZS60950.1:2003
- BS EN60950-1:2002
- GB4943-2001

Emissions:

- FCC Part15 class B
- EN55022 class B
- AS/NZS3548, AS/NZS4251.1 class B
- VCCI class B
- CNS13438 class B
- GB9254-1998/GB17625.1-2003
- CISPR22 class B

Immunity:

- EN55024/A1:2001
- Electrostatic discharge: 61000-4-2
- Radiated electromagnetic fields: 61000-4-3
- Fast transients(burst): 61000-4-4
- Surge transients: 61000-4-5
- Conducted disturbance: 61000-4-6
- Voltage dips, interruptions & variations: 61000-4-11

Electrical Specifications: (Absolute Maximum Rating)

Description	Symbol	Min	Typ	Max	Units	Comment
Input						
Voltage	V_{IN}	90	120/240	264	V _{AC}	2 Wire No Protective Ground
Frequency	F_{LINE}	47	50/60	63	Hz	
No-load Input Power(230VAC)				0.3	W	
Efficiency	η		75		%	
Inrush Current(240Vac)	I		40		A	
Environmental						
Operating Temperature	T	0	/	40	°C	Free convection, Sea level
Non-operating temperature	T	-20	/	80	°C	Free convection, Sea level
Operating humidity	T	10	/	90	%RH	Non condensing
Non-operating humidity	T	10	/	90	%RH	Non condensing

Typical model list :

INPUT CONDITION		DC OUTPUT VOLTAGE	DC OUTPUT CURRENT	OUTPUT VOLTAGE TOLERANCE	RIPPLE & NOISES	REGULATION		MAXIMUM OUTPUT POWER
						LINE	LOAD	
Input voltage: 90-264Vac Frequency: 47-63Hz Input current: 0.4A	1	21.9-24.0V	0-0.54A	5%	150mV	±1%	±5%	12W
	2	20.1-21.8V	0-0.59A	5%	150mV	±1%	±5%	12W
	3	18.6-20.0V	0-0.64A	5%	150mV	±1%	±5%	12W
	4	17.2-18.5V	0-0.69A	5%	150mV	±1%	±5%	12W
	5	16.1-17.1V	0-0.74A	5%	150mV	±1%	±5%	12W
	6	15.1-16.0V	0-0.79A	5%	150mV	±1%	±5%	12W
	7	14.2-15.0V	0-0.84A	5%	100mV	±1%	±5%	12W
	8	13.4-14.1V	0-0.89A	5%	100mV	±1%	±5%	12W
	9	12.0-13.3V	0-1.0A	5%	100mV	±1%	±5%	12W
	10	11.2-11.9V	0-0.89A	5%	100mV	±1%	±5%	10W
	11	10.1-11.1V	0-0.99A	5%	100mV	±1%	±5%	10W
	12	7.8-10.0V	0-1.28A	5%	70mV	±1%	±5%	10W
	13	6.3-7.7V	0-1.59A	5%	60mV	±1%	±5%	10W
	14	5.1-6.2V	0-1.96A	5%	50mV	±1%	±5%	10W
	15	2.8-5.0V	0-2.0A	5%	50mV	±1%	±5%	10W

REMARK: (Ripple and noise) 1. Measurements shall be made with an oscilloscope with 20MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.

Mechanical Specifications:

<p>1.Horizontal type</p> <p>UL, PSE, TAIWAN Weight:110g</p>	<p>Europe,Korea Weight:108g</p>	<p>Uk,HongKong Weight:120g</p>	<p>Australia,New Zealand Weight:112g</p>
<p>2.Vertical type</p> <p>UL, PSE, TAIWAN Weight:110g</p>	<p>Europe,Korea Weight:113g</p>	<p>Uk,HongKong Weight:117g</p>	<p>Australia,New Zealand Weight:115g</p>
<p>3.Table type</p> <p>UL,PSE,TAIWAN,Europe,Korea,China UK,HongKong,Australia,New Zealand</p> <p>4.International type</p> <p>UL,PSE,TAIWAN,Europe,Korea,China UK,HongKong,Australia,New Zealand</p>			

Part Number Coding

K	SPS	200-240v 100-120v	Max watts	Typical Available watts										Wall type	Outputs	ZZ	Available blades
	S			A	F (S)	W	XXX	YYYY	W (T)	1(2)	ZZ	US: USA, Japan CH:China EU:Europe UK:England AU:Australia KO:Korea M2:Mini 2pin(IEC320-C8) M3:Mini 3pin(IEC320-C6) B2: Big 2pin B3:Big 3pin(IEC320-C14) UV:Row					
	Adapter	100V-240V	OP voltage		OP current	Desk-top	Input Blades										

Example: KSAFD1200150W1US stands for: Wall mount 12v@1.5a 100-240v UL 15W Single output



12watts Series Switching Adapter(For IT)



Product Highlights:

- Complete, inexpensive, self-contained regulated power source
- Super power supply, fixed frequency chip circuit ensures stable ,long-lasting output required by any mobile Electronics, such as mobile phones ,PDAs,Digital cameras , CD/MP3 players, Walkie-talkie, tester machines, HUB,Modem,Scanner,Printer and much more.
- Extra safe design ,all with their respective safety approvals .
- Ultra low no-load /standby power consumption, meeting EC 2005 green power requirements.
- Light ,sleek ,and compact design.
- On-line LED power indicator (Optional).
- High efficiency circuitry that generates little heat.
- Built-in EMI filter.

Protection:

- Short circuit protection.
- Over voltage protection.
- Over current protection.
- Thermal shutdown capability.

Reliability:

- Burn-in: 100% full load, 40± 5°C, 4Hrs min..
- Leakage Current: 0.25mA max. at 254VAC.
- Withstanding Voltage: (between primary &secondary) 3000VAC 1 minute 10mA max.
- MTBF: meet MIL-HDBK-217F over 50K hours, full load, 25°C

Safety Approvals:

- UL60950-1, CSA C22.2 NO.60950-1-03
- EN60950-1/A11:2004
- AS/NZS60950.1:2003
- BS EN60950-1:2002
- GB4943-2001

Emissions:

- FCC Part15 class B
- EN55022 class B
- AS/NZS3548,AS/NZS4251.1 class B
- VCCI class B
- CNS13438 class B
- GB9254-1998/GB17625.1-2003
- CISPR22 class B

Immunity:

- EN55024/A1:2001
- Electrostatic discharge:61000-4-2
- Radiated electromagnetic fields:61000-4-3
- Fast transients(burst):61000-4-4
- Surge transients:61000-4-5
- Conducted disturbance:61000-4-6
- Voltage dips,interruptions& variations:61000-4-11

Electrical Specifications: (Absolute Maximum Rating)

Description	Symbol	Min	Typ	Max	Units	Comment
Input						
Voltage	V_{IN}	90	120/240	264	V _{AC}	2 Wire No Protective Ground
Frequency	F_{LINE}	47	50/60	63	Hz	
No-load Input Power(230VAC)				0.3	W	
Efficiency	η		75		%	
Inrush Current(240Vac)	I		40		A	
Environmental						
Operating Temperature	T	0	/	40	°C	Free convection, Sea level
Non-operating temperature	T	-20	/	80	°C	Free convection, Sea level
Operating humidity	T	10	/	90	%RH	Non condensing
Non-operating humidity	T	10	/	90	%RH	Non condensing

Typical model list :

INPUT CONDITION		DC OUTPUT VOLTAGE	DC OUTPUT CURRENT	OUTPUT VOLTAGE TOLERANCE	RIPPLE & NOISES	REGULATION		MAXIMUM OUTPUT POWER
						LINE	LOAD	
Input voltage: 90-264Vac Frequency: 47-63Hz Input current: 0.4A	1	20.2-24.0V	0-0.59A	5%	150mV	±1%	±5%	12W
	2	17.3-20.1V	0-0.69A	5%	150mV	±1%	±5%	12W
	3	15.3-17.2V	0-0.78A	5%	100mV	±1%	±5%	12W
	4	13.6-15.2V	0-0.88A	5%	100mV	±1%	±5%	12W
	5	12.1-13.5V	0-0.99A	5%	100mV	±1%	±5%	12W
	6	11.2-12V	0-1.00A	5%	100mV	±1%	±5%	12W
	7	10.1-11.1V	0-0.99A	5%	100mV	±1%	±5%	10W
	8	9.2-10V	0-1.09A	5%	80mV	±1%	±5%	10W
	9	8.4-9.1V	0-1.19A	5%	80mV	±1%	±5%	10W
	10	7.2-7.7V	0-1.28A	5%	70mV	±1%	±5%	10W
	11	6.3-7.1V	0-1.39A	5%	70mV	±1%	±5%	10W
	12	5.6-5.5V	0-1.59A	5%	60mV	±1%	±5%	10W
	13	6.3-7.7V	0-1.79A	5%	60mV	±1%	±5%	10W
	14	5.1-5.5V	0-1.96A	5%	50mV	±1%	±5%	10W
	15	3.0-5.0V	0-2.0A	5%	50mV	±1%	±5%	10W

REMARK: (Ripple and noise) 1. Measurements shall be made with an oscilloscope with 20MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.

Mechanical Specifications:

<p>1.Horizontal type</p> <p>UL, PSE, TAIWAN Weight:110g</p> <p>CCC, UL, PSE, JET, LESTED</p>	<p>Europe, Korea Weight:108g</p> <p>TUV, CE</p>	<p>Uk, HongKong Weight:120g</p> <p>BEAB</p>	<p>Australia, New Zealand Weight:112g</p>
<p>2.Vertical type</p> <p>UL, PSE, TAIWAN Weight:110g</p> <p>CCC, UL, PSE, JET, LESTED</p>	<p>Europe, Korea Weight:113g</p> <p>TUV, CE</p>	<p>Uk, HongKong Weight:117g</p> <p>BEAB</p>	<p>Australia, New Zealand Weight:115g</p>
<p>3.Table type</p> <p>UL, PSE, TAIWAN, Europe, Korea, China UK, HongKong, Australia, New Zealand</p> <p>CCC, UL, PSE, JET, LESTED, TUV, BEAB, CE</p>	<p>4.International type</p> <p>UL, PSE, TAIWAN, Europe, Korea, China UK, HongKong, Australia, New Zealand</p> <p>CCC, UL, PSE, JET, LESTED, TUV, CE, BEAB</p>		

Part Number Coding

Typical Available watts

B	C	D	E	F	G	H	I	J	K
5	10	15	25	35	45	55	65	80	100

K SPS 200-240v 100-120v Max watts W XXX YYYYY Wall type Outputs ZZ

Adapter 100V-240V OP voltage OP current Desk-top Input Blades

Available blades

- US: USA ,Japan
- CH:China
- EU:Europe
- UK:England
- AU:Australia
- KO:Korea
- M2:Mini 2pin(IEC320-C8)
- M3:Mini 3pin(IEC320-C6)
- B2: Big 2pin
- B3:Big 3pin(IEC320-C14)
- UV:Row

Example: KSAFD1200150W1US stands for: Wall mount 12v@1.5a 100-240v UL 15W Single output



15Watts Series Switching Adapter (For IT)

Product Highlights:

- Complete, inexpensive, self-contained regulated power source.
- Super power supply, fixed frequency chip circuit ensures stable, long-lasting output required by mobile electronics, such as mobile phones, PDAs, Digital cameras, CDMA Digital players, Walkie-talkie, tester machines, HUB, Modem, Scanner, Printer and much more.
- Extra safe design, all with their respective safety approvals .
- Ultra low no-load /standby power consumption, meeting EC 2005 green power requirements.
- Light, sleek, and compact design.
- On LED power indicator (Optional)
- High efficiency circuitry that generates little heat.
- Built-in EMI filter.

Protection:

- Short circuit protection.
- Over voltage protection.
- Over current protection.
- Thermal shutdown capability.

Reliability:

- Burn-in: 100% full load, 40± 5°C, 4Hrs min..
- Leakage Current: 0.25mA max. at 254VAC.
- Withstanding Voltage: (between primary & secondary) 3000VAC 1 minute 10mA max.
- MTBF: meet MIL-HDBK-217F over 50K hours, full load, 25°C



Safety Approvals:

- UL60950-1, CSA C22.2 NO.60950-1-03
- EN60950-1/A11:2004
- AS/NZS60950.1:2003
- BS EN60950-1:2002
- GB4943-2001

Emissions:

- FCC Part15 class B
- EN55022 class B
- AS/NZS3548, AS/NZS4251.1 class B
- VCCI class B
- CNS13438 class B
- GB9254-1998/GB17625.1-2003
- CISPR22 class B

Immunity:

- EN55024/A1:2001
- Electrostatic discharge: 61000-4-2
- Radiated electromagnetic fields: 61000-4-3
- Fast transients(burst): 61000-4-4
- Surge transients: 61000-4-5
- Conducted disturbance: 61000-4-6
- Voltage dips, interruptions & variations: 61000-4-11

Electrical Specifications: (Absolute Maximum Rating)

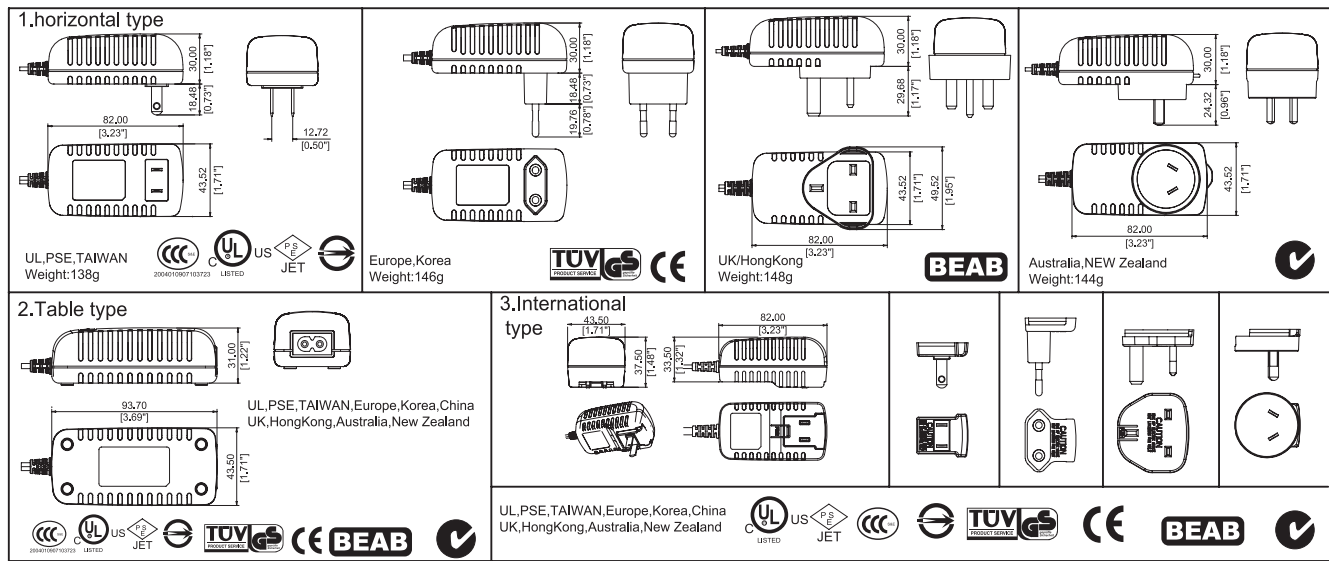
Description	Symbol	Min	Typ	Max	Units	Comment
Input						
Voltage	V_{IN}	90	120/240	264	V_{AC}	No ² Wire Protective Ground
Frequency	F_{LINE}	47	50/60	63	Hz	
No-load Input Power(230VAC)				0.3	W	
Efficiency	η		75		%	
Inrush Current(240Vac)	I		40		A	
Environmental						
Operating Temperature	T	0	/	40	°C	Free convection, Sea level
Non-operating temperature	T	-20	/	80	°C	Free convection, Sea level
Operating humidity	T	10	/	90	%RH	Non condensing
Non-operating humidity	T	10	/	90	%RH	Non condensing

Typical model list :

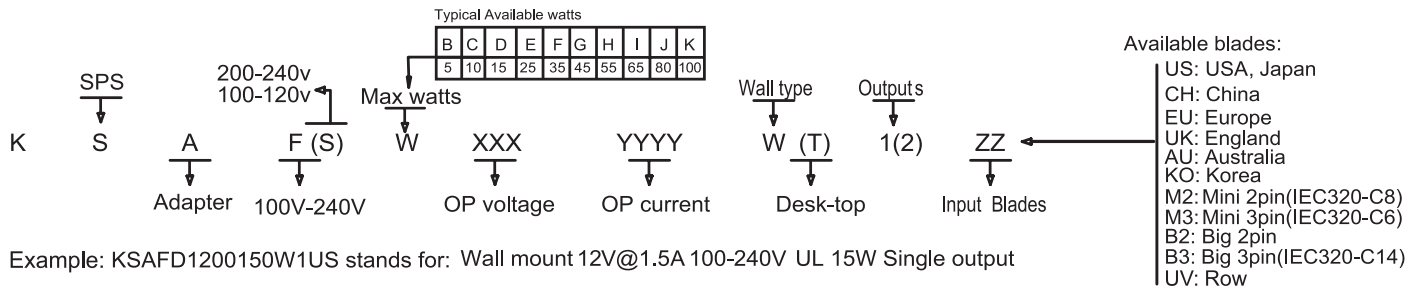
INPUT CONDITION		DC OUTPUT VOLTAGE	DC OUTPUT CURRENT	OUTPUT VOLTAGE TOLERANCE	RIPPLE & NOISE	REGULATION		MAXIMUM OUTPUT POWER
						LINE	LOAD	
Input voltage: 90-264Vac Frequency: 47-63Hz Input current: 0.4A	1	23-24V	0-0.78A	5%	150mV	±1%	±5%	18W
	2	20.5-22.52V	0-0.88A	5%	150mV	±1%	±5%	18W
	3	18.5-20.0V	0-0.97A	5%	150mV	±1%	±5%	18W
	4	15.5-18V	0-1.16A	5%	100mV	±1%	±5%	15W
	5	11.9-15V	0-1.5A	5%	100mV	±1%	±5%	15W
	6	11.0-11.5V	0-1.36A	5%	100mV	±1%	±5%	15W
	7	9.5-10.5V	0-1.58A	5%	100mV	±1%	±5%	15W
	8	7.9-9.0V	0-1.88A	5%	70mV	±1%	±5%	15W
	9	6.3-7.6V	0-2.1A	5%	60mV	±1%	±5%	15W
	10	5.3-6.0V	0-2.2A	5%	60mV	±1%	±5%	13W
	11	3.0-5.2V	0-2.4A	5%	50mV	±1%	±5%	12.5W

REMARK: (Ripple and noise) 1. Measurements shall be made with an oscilloscope with 20MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.

Mechanical Specifications:



Part Number Coding:





24watts Series Switching Adapter (For IT)

Product Highlights:

- Complete, inexpensive, self-contained regulated power source.
- Super power supply, fixed frequency chip circuit ensures stable, long-lasting output required by mobile electronics such as mobile phones, PDAs, Digital cameras, CDMA Digital players, Walkie-talkie, tester machines, HUB, Modem, Scanner, Printer and much more.
- Extra safe design, all with their respective safety approvals .
- Ultra low no-load /standby power consumption, meeting EC 2005 green power requirements.
- Light, sleek, and compact design.
- On LED power indicator (Optional)
- High efficiency circuitry that generates little heat
- Built-in EMI filter.

Protection:

- Short circuit protection.
- Over voltage protection.
- Over current protection.
- Thermal shutdown capability.

Reliability:

- Burn-in: 100% full load, 40± 5°C, 4Hrs min..
- Leakage Current: 0.25mA max. at 254VAC.
- Withstanding Voltage: (between primary & secondary) 3000VAC 1 minute 10mA max.
- MTBF: meet MIL-HDBK-217F over 50K hours, full load, 25°C



Safety Approvals:

- UL60950-1, CSA C22.2 NO.60950-1-03
- EN60950-1/A11:2004
- AS/NZS60950.1:2003
- BS EN60950-1:2002
- GB4943-2001

Emissions:

- FCC Part15 class B
- EN55022 class B
- AS/NZS3548, AS/NZS4251.1 class B
- VCCI class B
- CNS13438 class B
- GB9254-1998/GB17625.1-2003
- CISPR22 class B

Immunity:

- EN55024/A1:2001
- Electrostatic discharge: 61000-4-2
- Radiated electromagnetic fields: 61000-4-3
- Fast transients(burst): 61000-4-4
- Surge transients: 61000-4-5
- Conducted disturbance: 61000-4-6
- Voltage dips, interruptions & variations: 61000-4-11

Electrical Specifications: (Absolute Maximum Rating)

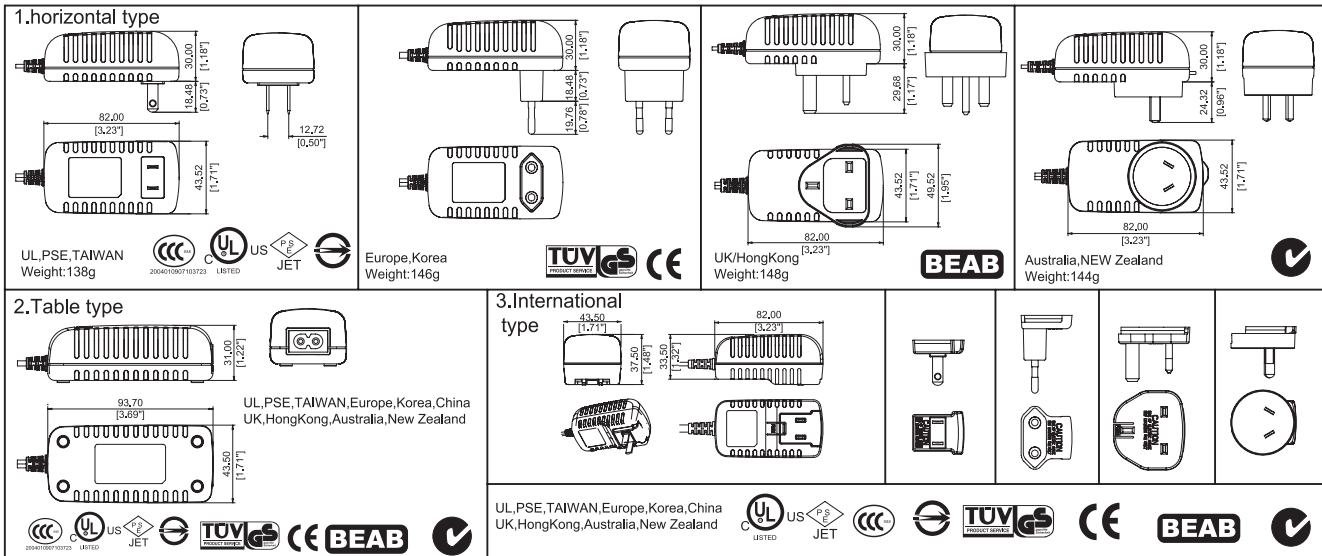
Description	Symbol	Min	Typ	Max	Units	Comment
Input						
Voltage	V_{IN}	90	120/240	264	V_{AC}	No Protective Ground 2 Wire
Frequency	F_{LINE}	47	50/60	63	Hz	
No-load Input Power(230VAC)				0.3	W	
Efficiency	η		75		%	
Inrush Current(240Vac)	I		40		A	
Environmental						
Operating Temperature	T	0	/	40	°C	Free convection, Sea level
Non-operating temperature	T	-20	/	80	°C	Free convection, Sea level
Operating humidity	T	10	/	90	%RH	Non condensing
Non-operating humidity	T	10	/	90	%RH	Non condensing

Typical model list :

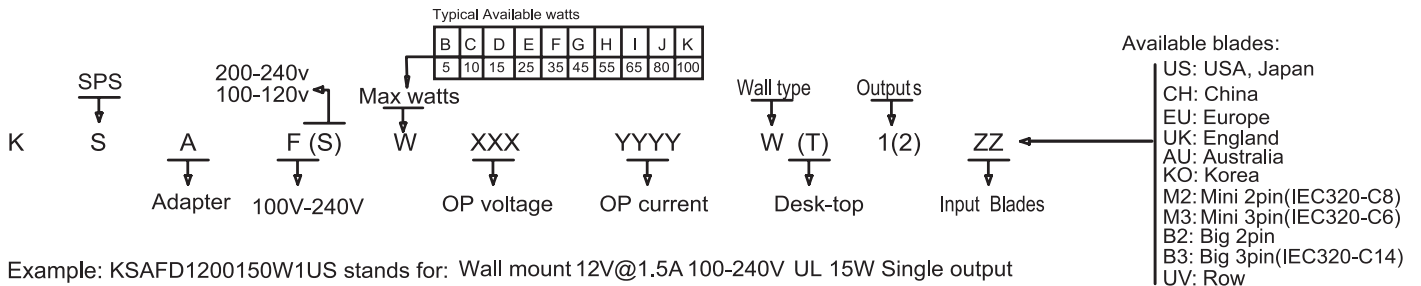
INPUT CONDITION		DC OUTPUT VOLTAGE	DC OUTPUT CURRENT	OUTPUT VOLTAGE TOLERANCE	RIPPLE & NOISE	REGULATION		MAXIMUM OUTPUT POWER
						LINE	LOAD	
Input voltage: 90-264Vac Frequency: 47-63Hz Inputcurrent: 0.6A	1	21.9-24.0V	0-1.09A	5%	100mV	±1%	±5%	24W
	2	20.1-21.8V	0-1.19A	5%	100mV	±1%	±5%	24W
	3	18.5-20.0V	0-1.29A	5%	100mV	±1%	±5%	24W
	4	17.2-18.4V	0-1.39A	5%	100mV	±1%	±5%	24W
	5	16.1-17.1V	0-1.49A	5%	100mV	±1%	±5%	24W
	6	15.1-16.0V	0-1.58A	5%	100mV	±1%	±5%	24W
	7	14.2-15.0V	0-1.69A	5%	100mV	±1%	±5%	24W
	8	12.7-14.1V	0-1.88A	5%	100mV	±1%	±5%	24W
	9	11.5-12.6V	0-2.08A	5%	100mV	±1%	±5%	24W
	10	10.5-11.4V	0-2.28A	5%	100mV	±1%	±5%	24W
	11	9.7-10.4V	0-2.47A	5%	100mV	±1%	±5%	24W
	12	7.5-9.6V	0-2.5A	5%	100mV	±1%	±5%	24W

REMARK: (Ripple and noise) 1. Measurements shall be made with an oscilloscope with 20MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.

Mechanical Specifications:



Part Number Coding:





25watts Series Switching Adapter (For IT)

Product Highlights:

- Complete, inexpensive, self-contained regulated power source.
- Super power supply, fixed frequency chip circuit ensures stable, long-lasting output required by mobile electronics, such as mobile phones, PDAs, Digital cameras, CDMA Digital players, Walkie-talkie, tester machines, HUB, Modem, Scanner, Printer and much more.
- Extra safe design, all with their respective safety approvals .
- Ultra low no-load /standby power consumption, meeting EC 2005 green power requirements.
- Light, sleek, and compact design.
- On LED power indicator (Optional)
- High efficiency circuitry that generates little heat
- Built-in EMI filter.

Protection:

- Short circuit protection.
- Over voltage protection.
- Over current protection.
- Thermal shutdown capability.

Reliability:

- Burn-in: 100% full load, 40± 5°C, 4Hrs min..
- Leakage Current: 0.25mA max. at 254VAC.
- Withstanding Voltage: (between primary & secondary) 3000VAC 1 minute 10mA max.
- MTBF: meet MIL-HDBK-217F over 50K hours, full load, 25°C



Safety Approvals:

- UL60950-1, CSA C22.2 NO.60950-1-03
- EN60950-1/A11:2004
- AS/NZS60950.1:2003
- BS EN60950-1:2002
- GB4943-2001

Emissions:

- FCC Part15 class B
- EN55022 class B
- AS/NZS3548, AS/NZS4251.1 class B
- VCCI class B
- CNS13438 class B
- GB9254-1998/GB17625.1-2003
- CISPR22 class B

Immunity:

- EN55024/A1:2001
- Electrostatic discharge: 61000-4-2
- Radiated electromagnetic fields: 61000-4-3
- Fast transients(burst): 61000-4-4
- Surge transients: 61000-4-5
- Conducted disturbance: 61000-4-6
- Voltage dips, interruptions & variations: 61000-4-11

Electrical Specifications: (Absolute Maximum Rating)

Description	Symbol	Min	Typ	Max	Units	Comment
Input						
Voltage	V_{IN}	90	120/240	264	V_{AC}	2 Wire No Protective Ground
Frequency	F_{LINE}	47	50/60	63	Hz	
No-load Input Power(230VAC)				0.3	W	
Efficiency	η		75		%	
Inrush Current(240Vac)	I		40		A	Cold 25°C
Environmental						
Operating Temperature	T	0	/	40	°C	Free convection, Sea level
Non-operating temperature	T	-20	/	80	°C	Free convection, Sea level
Operating humidity	T	10	/	90	%RH	Non condensing
Non-operating humidity	T	10	/	90	%RH	Non condensing

Typical model list :

INPUT CONDITION		DC OUTPUT VOLTAGE	DC OUTPUT CURRENT	OUTPUT VOLTAGE TOLERANCE	RIPPLE & NOISE	REGULATION		MAXIMUM OUTPUT POWER
						LINE	LOAD	
Input voltage: 90-264Vac Frequency: 47-63Hz Input current: 0.8A	1	21.6-24.0V	0.05-1.39A	5%	100mV	±1%	±5%	30W
	2	20.1-21.5V	0.05-1.49A	5%	100mV	±1%	±5%	30W
	3	18.9-20.0V	0.05-1.59A	5%	100mV	±1%	±5%	30W
	4	16.8-18.8V	0.05-1.79A	5%	100mV	±1%	±5%	30W
	5	15.1-16.7V	0.05-1.99A	5%	100mV	±1%	±5%	30W
	6	13.7-15.0V	0.05-2.19A	5%	100mV	±1%	±5%	30W
	7	12.0-13.6V	0.05-2.5A	5%	100mV	±1%	±5%	30W
	8	10.9-11.9V	0.05-2.48A	5%	100mV	±1%	±5%	30W
	9	9.7-10.8V	0.05-2.78A	5%	100mV	±1%	±5%	27W
	10	8.4-9.6V	0.05-3.0A	6%	100mV	±1%	±5%	27W
	11	6.4-8.3V	0.05-3.91A	6%	100mV	±1%	±5%	25W
	12	3.0-6.3V	0.05-4.0A	6%	100mV	±1%	±5%	25W

REMARK: (Ripple and noise) 1. Measurements shall be made with an oscilloscope with 20MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.

Mechanical Specifications:

1. Horizontal type

UL, PSE, TAIWAN
Weight: 196g

Europe, Korea
Weight: 198g

UK/HongKong
Weight: 195g

Australia, NEW Zealand
Weight: 193g

2. Table type

UL, PSE, TAIWAN, Europe, Korea, China
UK, HongKong, Australia, New Zealand

3. International type

UL, PSE, TAIWAN, Europe, Korea, China
UK, HongKong, Australia, New Zealand

Part Number Coding:

Typical Available watts

B	C	D	E	F	G	H	I	J	K
5	10	15	25	35	45	55	65	80	100

Available blades:

- US: USA, Japan
- CH: China
- EU: Europe
- UK: England
- AU: Australia
- KO: Korea
- M2: Mini 2pin(IEC320-C8)
- M3: Mini 3pin(IEC320-C6)
- B2: Big 2pin
- B3: Big 3pin(IEC320-C14)
- UV: Row

Example: KSAFD1200150W1US stands for: Wall mount 12V@1.5A 100-240V UL 15W Single output



50watts Series Switching Adapter(For IT)

Product Highlights:

- Complete, inexpensive, self-contained regulated power source.
- Super power supply, fixed frequency chip circuit ensures stable, long-lasting output required by mobile electronics, such as LCD Monitor, Notebook computers, Networking, printers, test equipment, and much more.
- Extra safe design, all with their respective safety approvals.
- Ultra low no-load /standby power consumption, meeting EC 2005 green power requirements.
- Light, sleek, and compact design.
- On LED power indicator (Optional).
- High efficiency circuitry that generates little heat.
- Built-in EMI filter.

Protection:

- Short circuit protection.
- Over voltage protection.
- Over current protection.
- Thermal shutdown capability.

Reliability:

- Burn-in: 100% full load, 40±5°C, 4Hrs min.
- Leakage Current:
Class II: 0.25mA max. at 254VAC.
Class I: 0.75mA max. at 254VAC.
- Withstanding Voltage: (between primary & secondary)
Class II: 3000VAC 1 minute 10mA max.
Class I: 1500 VAC 1 minute 10mA max.
- MTBF: meet MIL-HDBK-217F over 50K hours, full load, 25°C



Safety Approvals:

- UL60950-1, CSA C22.2NO.60950-1-03
- EN60950-1/A11:2004
- AS/NZS60950.1:2003
- BS EN60950-1:2002
- GB4943-2001

Emissions:

- FCC Part 15 class B
- EN55022 class B
- AS/NZS3548, AS/NZS4251.1 class B
- VCCI class B
- CNS13438 class B
- GB9254-1998/GB17625.1-2003
- CISPR22 class B

Immunity:

- EN55024/A1:2001
- Electrostatic discharge: 61000-4-2
- Radiated electromagnetic fields: 61000-4-3
- Fast transients(burst): 61000-4-4
- Surge transients: 61000-4-5
- Conducted disturbance: 61000-4-6
- Voltage dips, interruptions & variations: 61000-4-11

Electrical Specifications: (Absolute Maximum Rating)

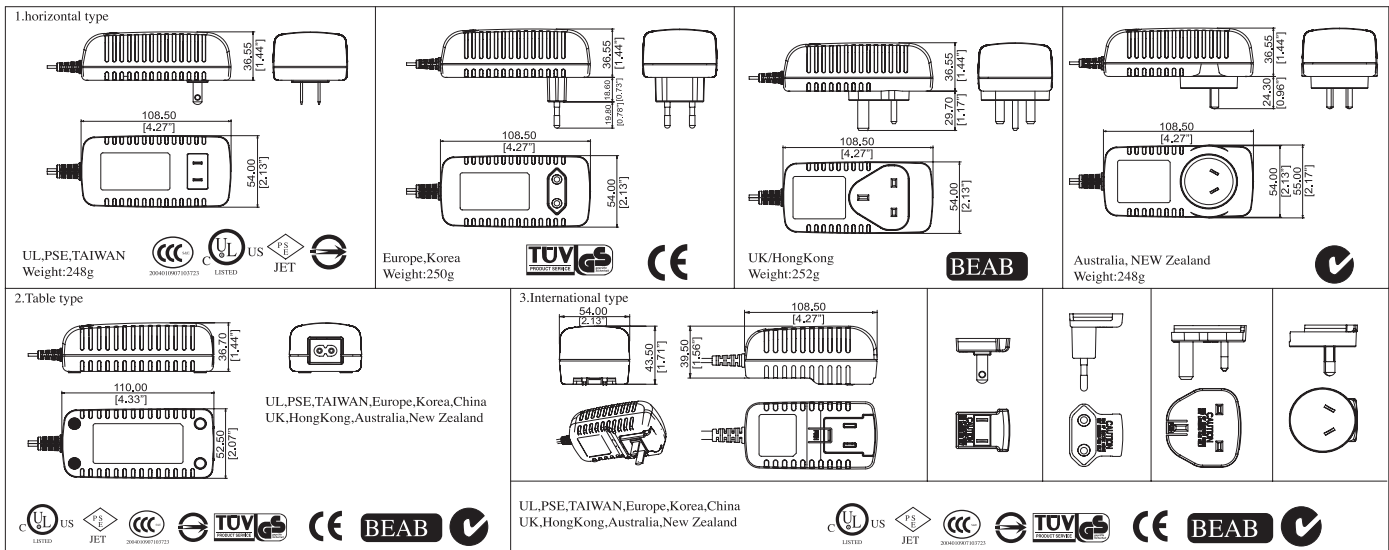
Description	Symbol	Min	Typ	Max	Units	Comment
Input						
Voltage	V _{IN}	90	120/240	264	V _{AC}	
Frequency	F _{LINE}	47	50/60	63	Hz	
No-load Input Power(230VAC)				0.75	w	
Efficiency	η		75		%	
Inrush Current(240Vac)	I		60		A	Cold 25°C
Environmental						
Operating Temperature	T	0	/	40	°C	Free convection, Sea level
Non-operating	T	-20	/	80	°C	Free convection, Sea level
Operating humidity	T	10	/	90	%RH	Non condensing
Non-operating humidity	T	10	/	90	%RH	Non condensing

Typical model list :

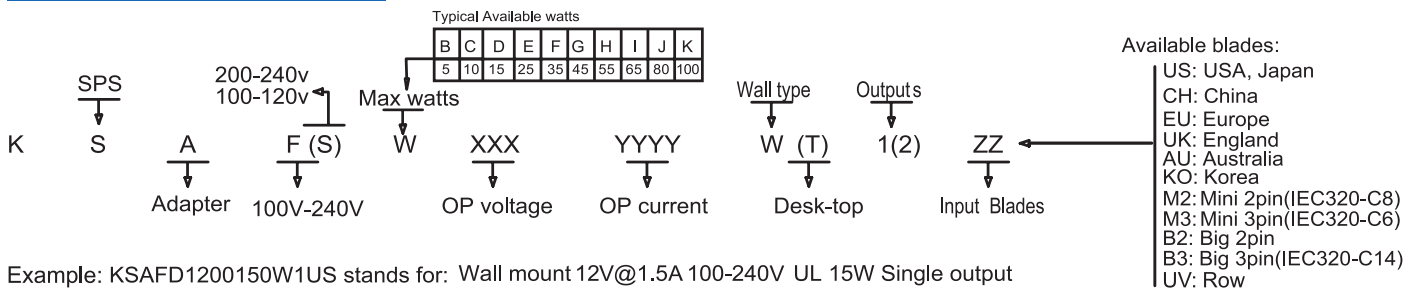
INPUT CONDITION		DC OUTPUT VOLTAGE	DC OUTPUT CURRENT	OUTPUT VOLTAGE TOLERANCE	RIPPLE & NOISE	REGULATION		MAXIMUM OUTPUT POWER
						LINE	LOAD	
Input voltage: 90-264Vac Frequency: 47-63Hz Input current: 1.2A	1	23.9-24.0V	0.05-2.09A	5%	150mV	1%	5%	50W
	2	22.8-23.8V	0.05-2.19A	5%	150mV	1%	5%	50W
	3	21.8-22.7V	0.05-2.29A	5%	150mV	1%	5%	50W
	4	20.9-21.7V	0.05-2.39A	5%	150mV	1%	5%	50W
	5	20.1-20.8V	0.05-2.49A	5%	150mV	1%	5%	50W
	6	17.9-20V	0.05-2.69A	5%	150mV	1%	5%	50W
	7	16.1-17.8V	0.05-2.99A	5%	150mV	1%	5%	48W
	8	13.8-16V	0.05-3.48A	5%	120mV	1%	5%	48W
	9	12.1-13.7V	0.05-3.97A	5%	120mV	1%	5%	48W
	10	10.1-12V	0.05-4.46A	5%	100mV	1%	5%	48W
	11	7.6-10V	0.05-4.8A	5%	100mV	1%	5%	45W
	12	5.6-7.5V	0.05-5.9A	5%	100mV	1%	5%	37.5W
	13	5-5.5V	0.05-6.0A	5%	100mV	1%	5%	33W

REMARK: (Ripple and noise) 1. Measurements shall be made with an oscilloscope with 20MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.

Mechanical Specifications:



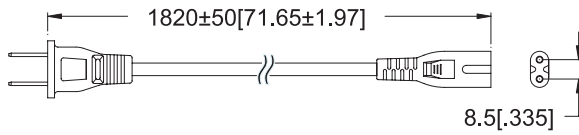
Part Number Coding:



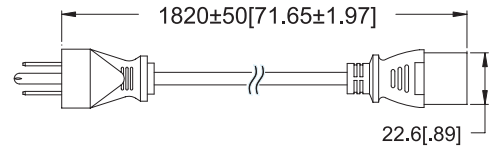
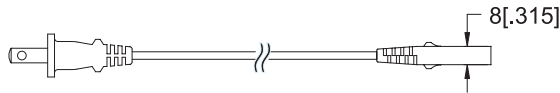


Input Plug Configurations

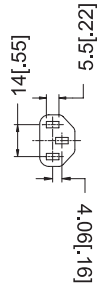
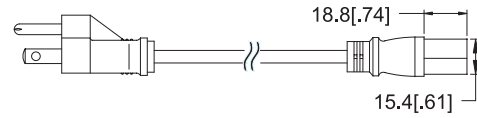
1): USA ,Japan,China



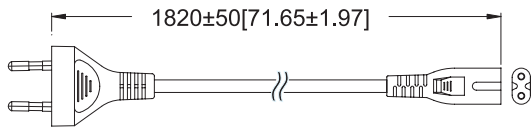
2 Core Cord /UL&cUL;PSE,CCC



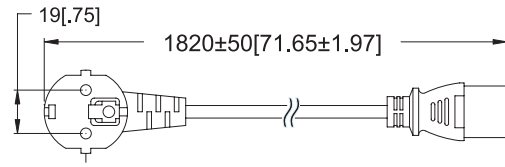
Grounded 3 Core Cord /UL&cUL /PSE/CCC



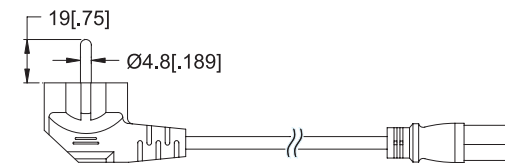
2) :Europe



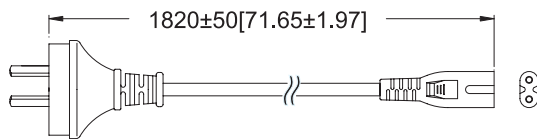
2 Core Cord /VDE ,CE,S-MARK



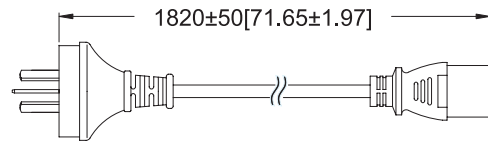
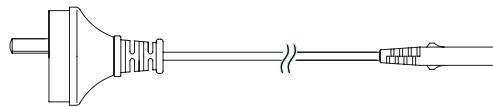
Grounded 3 Core Cord /VDE CE ,S-MARK,



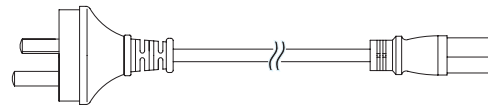
3): Australia/New Zealand



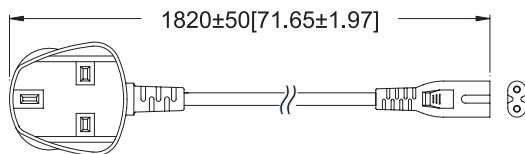
2 Core Cord/ SAA



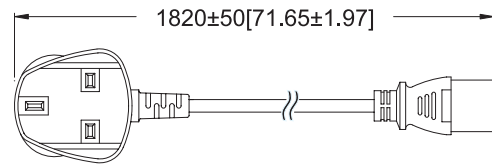
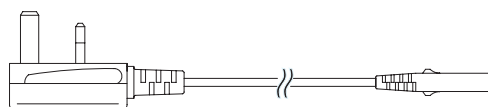
Grounded 3 Core Cord /SAA



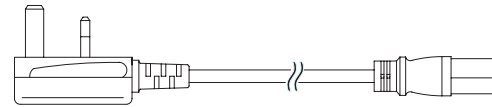
4): UK /Hongkong



2 Core Cord/BSI CE BEAB



Grounded 3 Core Cord /BSI CE BEAB

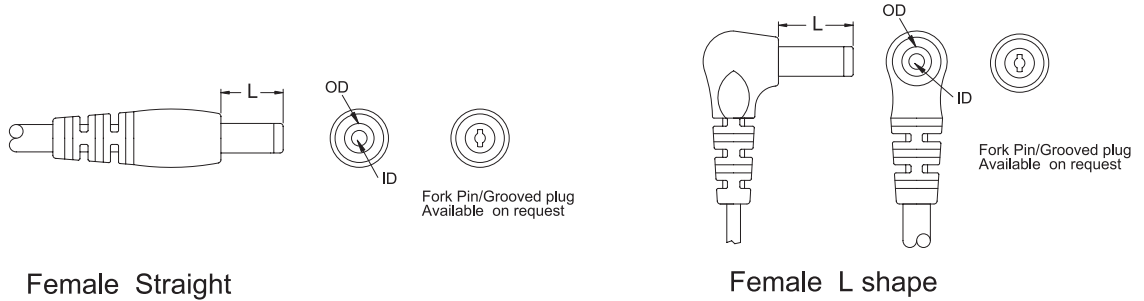


Notes: The shape of the line cord is subject to change without notice in advance .
All cords are certified to their safety approval respectively .



Output Plug Configurations

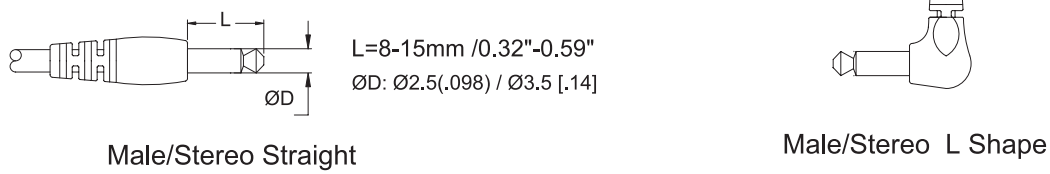
1): Barrel Plug



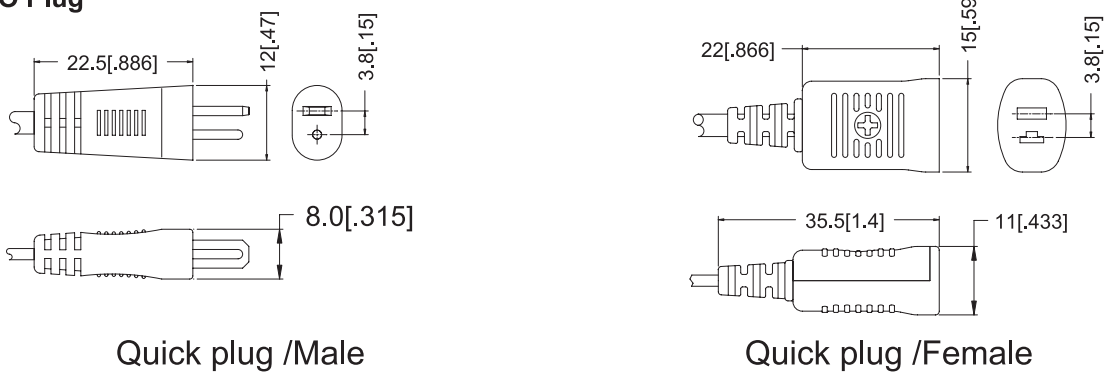
Plug Dim	Ø2.35 / Ø0.7	Ø3 / Ø1.1	Ø3.5 / Ø1.35	Ø4 / Ø1.74	Ø4.75 / Ø1.7	Ø5 / Ø2.1	Ø5 / Ø2.5	Ø5.5 / Ø2.1	Ø5.5 / Ø2.5
Plug Type	.093"/.027	.12"/.023"	.14"/.053	.157"/.067	.187"/.067"	.197"/.083"	.197"/.098"	.217"/.083"	.217"/.098"
Straight	○	○	○	○	○	○	○	○	○
L Shape	○	○	○	○	○	○	○	○	○

Notes: "L" _Length Extended:From 6/mm (0.24") thru 18mm(.71")

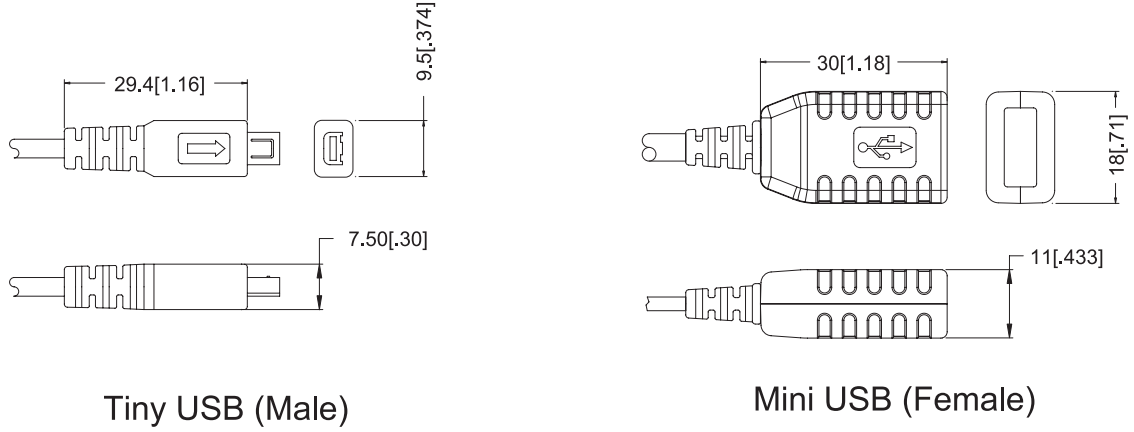
2) :Stereo Plug



3) :Quick Plug/IO Plug



4) :USB Plug



FE Technology Inc.

Ready to serve OEM/ODM Customers throughout the USA. We are the choice of many large and small OEM factories.

EXPERIENCE: 20 years serving the USA market

RESPONSIVE: We can review and respond to your specs, sometimes overnight. We can expedite manufacturing and shipment of your products.

QUALITY: With our highly trained factory staff and local QC and QA, we doubly insure the quality of the product you receive.

SERVICE: In today's market, service distinguishes the supplier who is truly an extension of your Engineering, Purchasing and Production departments. Our goal is to be an integral part of your organization and be considered an "external, but connected, function" of your company.

OTHER PRODUCTS FROM FE TECHNOLOGY

CUSTOM OEM CABLES	Molded Assembled OBD USB 1394
CUSTOM HARNESSSES	Built to customer specifications
ANTENNAS	Molded Steel PCB Ceramic
CUSTOM KEYPADS	Rubber Silicone Membrane
TELCO PRODUCTS	Jacks Cords CAT5 CAT6
PCB ASSEMBLY	Design Layout SMT Thru-hole
TURNKEY PRODUCTION	Concept to Large Scale Production

Sales & Engineering

Phone: 937-898-9472

Corporate Headquarters

Phone: 925-803-1238

sales@fe-tech.com

Fax: 937-898-9473

Fax: 925-803-1212

Internet Site

www.fe-tech.com

