



Features

- Meet Efficiency Level VI
- Operation up to 5, 000 meters
- Full Range AC Input from 90 to 264 Vac
- IEC320-C14 AC Inlet
- Single regulated output from 19/24 /48/54Vdc Output
- Output Power: 180W
- High efficiency and reliability
- Class I Power Adapter
- OVP, OCP, Short circuit and thermal protection
- UL/cUL, FCC, TUV, EMC safety approvals
- Meet NRCAN, COC Tier 1, GEMS, CONUEE efficiency requirements
- Meet KC, CCC, RCM, BSMI, PSB, BIS, CU, PSE, NOM safety requirements
- 100% burn-in/Hi-Pot/ATE
- Operation in tropical climate environment
- Custom designs available

Level VI



Description

The SPI FSP180-AxAN2 series are highly reliable AC-DC switching power supplies with 180W output power. All models of adapters provide different output voltages 19VDC, 24VDC, 48VDC, and 54VDC with optional DC plug that fit into the demands for various types of consumer, commercial, and industrial electronic devices. They are enclosed in a 94V-0 rated polycarbonate case with an IEC320-C14 inlet to mate with various AC power cords for world-wide use. All models meet FCC Part 15 class B, IC ICES-003, and EMC emission limitations, and comply with Department of Energy (DOE) and Energy-related Products (ErP) standards.

Applications

- Desktop/All-in-One/Notebook PCs
- LCD/LED Monitors
- POS systems
- Office electronic devices
- Telecommunication devices
- Test measurement equipment
- Industrial equipment



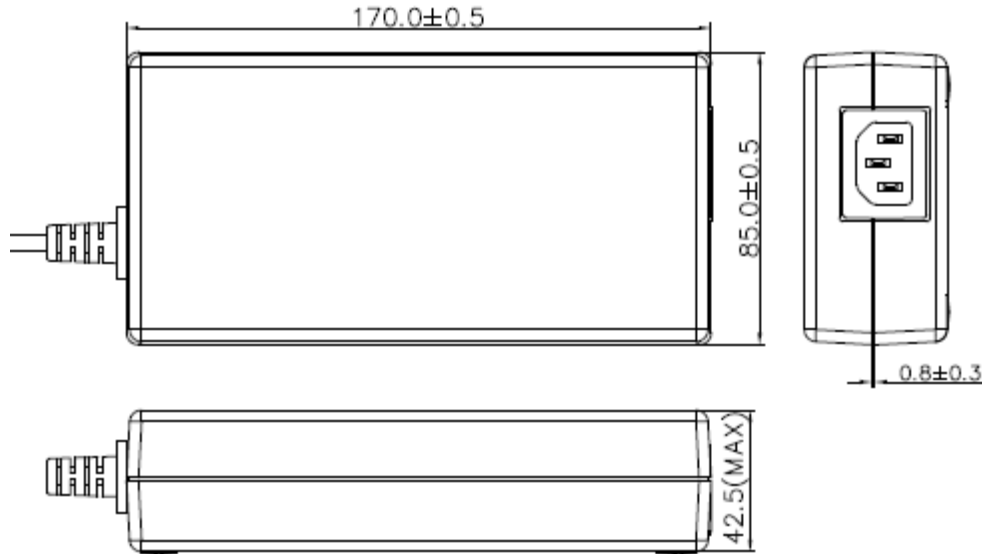
FSP180-AxAN2 Series AC-DC POWER SUPPLY

Specifications:

	Model	FSP180-ABAN2	FSP180-AAAN2	FSP180-AFAN2	FSP180-AWAN2
Output	Rated Voltage	19V	24V	48V	54V
	Current	0 ~ 9.47A	0 ~ 7.5A	0 ~ 3.75A	0 ~ 3.34A
	Watts	180W	180W	180W	180W
	Voltage Regulation	±5%			
	Overshoot	±10%			
	Dynamic Load Change	±10%			
	Ripple & Noise (Max.)	450mVp-p	500mVp-p	500mVp-p	600mVp-p
	Turn on Time (Max.)	3Sec			
	Rise Time (Max.)	50ms	50ms	70ms	50ms
	Hold up Time (Min.)	10ms			
	Efficiency (Typical)	89% ~ 90%	90% ~ 91%	92% ~ 93%	92% ~ 93%
DOE IV / CoC Tier 1					
Input	Voltage Range	90 ~ 264Vac			
	Frequency Range	47 ~ 63Hz(±1Hz)			
	Current (Max.)	2.5A	2.5A	2.5A	2.5A
	Inrush Current (cold start, full load, 25°C)	64.5A @100Vac 121A@240Vac	66A@110Vac 124A@240Vac	65A@110Vac 130A @240Vac	66.5A@110Vac 141A @240Vac
	Leakage Current (Max.)	0.25mA at 264VAC/50Hz			
	No Load Power Consumption	0.21W			
Protection	Short Circuit Protection	output shut down and auto-recovery after Fault condition removed			
	Over Current Protection	output shut down and auto-recovery after Fault condition removed			
	Over Voltage Protection	output shut down at 160% of voltage and recovery after AC reset			
	Over Temperature Protection	output shut down at abnormal temperature and recovery after AC reset			
Safety & Compliance	Safety Approvals	CB,UL/cUL, TUV			
	EMI/EMC	FCC Part 15 Class B, EMC			
	RoHS	2011/65/EU			
	Hi Pot	Input to output 1.5KV for 1 minute			
	Insulation Resistance	Input to Output at 500Vdc ≥20MΩ			
Environment	Operating Temperature/ Humidity	0~40°C/20~80%			
	Storage Temperature/ Humidity	-20~80°C/10~90%			
	Vibration	(1) Non-operating, 0.01g ² /Hz at 5Hz, slopping to 0.02g ² /Hz at 20Hz, And maintain 0.02g ² /Hz from 20Hz ~ 500Hz (2) PSD=3.13grms, 15 minutes/axis (3) Vibration duration:15minutes (4) Vibration waveform: Random (5) Force Direction X,Y,Z			
Other	Dimension ((L*W*H)	170 x 85 x 42.5 mm			
	Adapter Weight (Typical)	860g			
	MTBF	Above 500K hours, Telcordia SR-332 (25°C)			
Note	Contact SPI for further information				



Mechanical Drawing (mm)



Optional Output DC Plugs

Profile & Dimension	Pinouts	Description	Suitable for SPI Models	Suggested Mating Connector
	1: -V 2: -V 3: -V 4: +V 5: +V 6: +V	6-pin connector Molex receptacle housing 39-01-2060 with female terminal #5556 series or equivalent	FSP180-ABAN2 FSP180-AAAN2 FSP180-AFAN2 FSP180-AWAN2	Molex plug housing 39-01-2066 with male terminal #5558 series or equivalent
	1: -V 2: -V 3: -V 4: +V 5: +V 6: +V	6-pin connector Molex receptacle housing 39-01-2065 with female terminal #5556 series or equivalent	FSP180-ABAN2 FSP180-AAAN2 FSP180-AFAN2 FSP180-AWAN2	Molex plug housing 39-01-2066 with male terminal #5558 series or equivalent
	1: +V 2: +V 3: -V 4: -V Shell: -V & AC GND	Female 4-pin plug without lock (molding type) Singatron 3MP-3432 or equivalent	FSP180-ABAN2 FSP180-AAAN2 FSP180-AFAN2 FSP180-AWAN2	4-pin connector Singatron 2MJ3002, 2MJ-3432, or equivalent
	1: +V 2: +V 3: -V 4: -V Shell: -V & AC GND	Male 4-pin plug without lock (molding type)	FSP180-ABAN2 FSP180-AAAN2 FSP180-AFAN2 FSP180-AWAN2	4-pin socket Kycon P/N: KPJX-4S-S or equivalent



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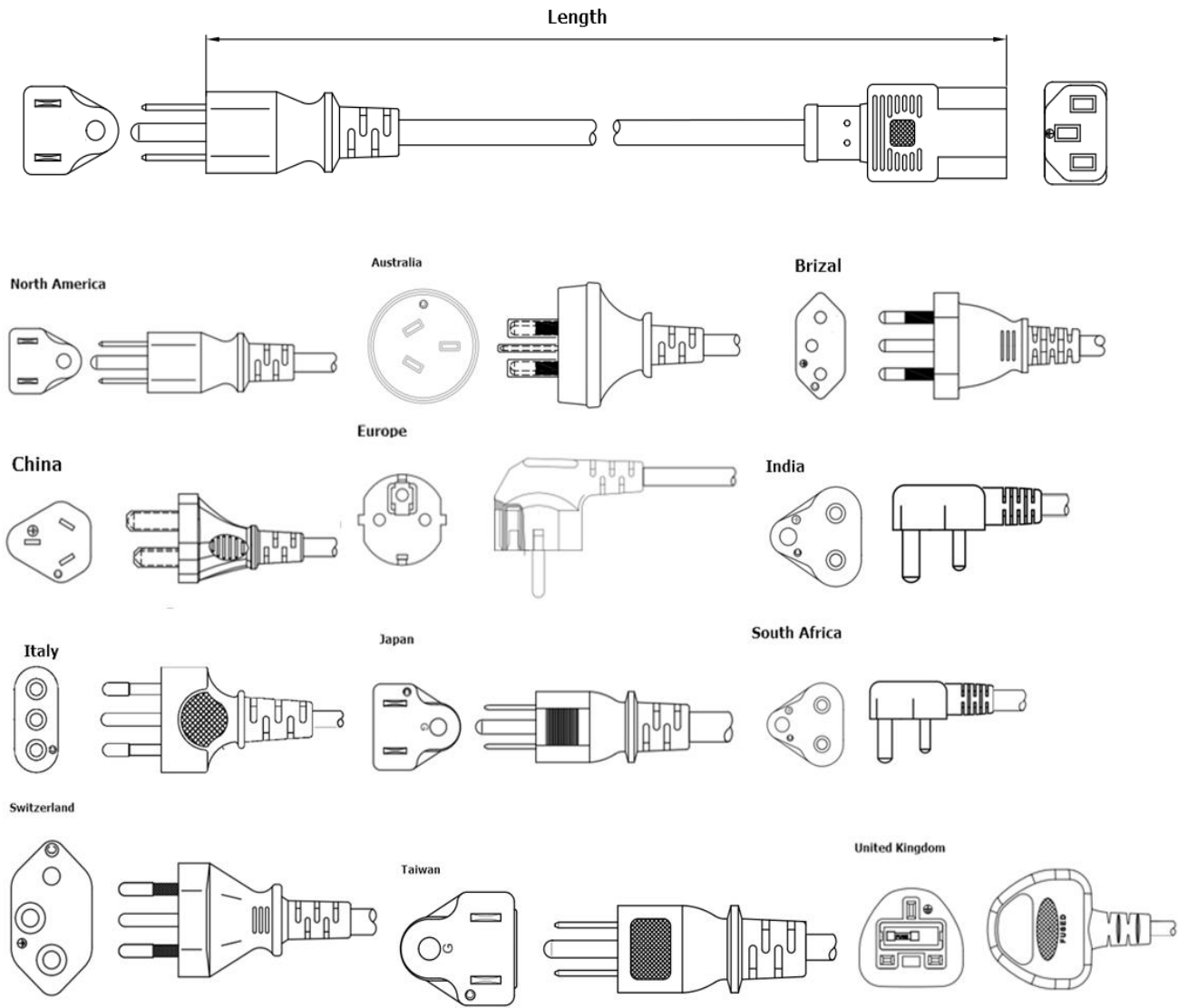
	<p>1: +V 2: +V 3: -V 4: -V Shell: -V & AC GND</p>	<p>Male 4-pin plug with lock (molding type)</p>	<p>FSP180-ABAN2 FSP180-AAAN2 FSP180-AFAN2 FSP180-AWAN2</p>	<p>4-pin socket Kycon P/N: KPJX-4S-S or equivalent</p>
	<p>1: -V 2: +V</p>	<p>2-pin receptacle housing Molex 39-01-3025 with female terminal #5556 series or equivalent</p>	<p>FSP180-ABAN2 FSP180-AAAN2 FSP180-AFAN2 FSP180-AWAN2</p>	<p>Molex plug housing 39-01-2021 with male terminal #5558 series or equivalent</p>
	<p>Center: +V Sleeve: -V</p>	<p>Barrel female connector (Fork & Groove type)</p>	<p>FSP180-ABAN2 FSP180-AAAN2 FSP180-AFAN2 FSP180-AWAN2</p>	<p>Switchcraft, Type: RA712 or equivalent</p>
	<p>Center: +V Sleeve: -V</p>	<p>Barrel female connector (Fork & Groove type)</p>	<p>FSP180-ABAN2 FSP180-AAAN2 FSP180-AFAN2 FSP180-AWAN2</p>	<p>Switchcraft, Type: RA722 or equivalent</p>
	<p>Center: +V Sleeve: -V</p>	<p>Barrel right angle female connector (Fork & Groove type)</p>	<p>FSP180-ABAN2 FSP180-AAAN2 FSP180-AFAN2 FSP180-AWAN2</p>	<p>Switchcraft, Type: RA712 or equivalent</p>
	<p>Center: +V Sleeve: -V</p>	<p>Barrel right angle female connector (Fork & Groove type)</p>	<p>FSP180-ABAN2 FSP180-AAAN2 FSP180-AFAN2 FSP180-AWAN2</p>	<p>Barrel right angle female connector (Fork & Groove type)</p>
	<p>Center: +V Sleeve: -V</p>	<p>EIAJ RC-5320A plug type B with internal pin EIAJ-05 plug</p>	<p>FSP180-ABAN2 FSP180-AAAN2 FSP180-AFAN2 FSP180-AWAN2</p>	<p>Lumberg 1613 11 or Lumberg 1614 05 or equivalent</p>

Note: Contact SPI for further information



Optional AC Power Cords

Country	Cable Type	Length	SPI P/N
North America	SVT	1830 mm +/- 50	PCR-B3US-183C
Australia	H05VV-F	1830 mm +/- 50	PCR-B3AU-183B
Brazil	H05VV-F	1830 mm +/- 50	PCR-B3BR-183B
China	RVV 300/500	1830 mm +/- 50	PCR-B3CN-183B
India	H05VV-F	1830 mm +/- 50	PCR-B3OUK-183B
Italy	H05VV-F	1830 mm +/- 50	PCR-B3IT-183B
Japan	VCTF	1830 mm +/- 50	PCR-B3JP-183A
South Africa	H05VV-F	1830 mm +/- 50	PCR-B3SA-183B
Switzerland	H05VV-F	1830 mm +/- 50	PCR-B3SW-183B
Taiwan	VCTF	1830 mm +/- 50	PCR-B3TW-183A
United Kingdom	H05VV-F	1830 mm +/- 50	PCR-B3UK-183B



Note: Contact SPI for further information
v.16060301