



### 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 5/12/19/24Vdc Output
- Output Power: 15W and 25W
- 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 2, 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 FSP015/025-DxAN2 series are highly reliable AC-DC switching power supplies with output power from 120W to 150W. All models of adapters provide different output voltages 5VDC, 12VDC, 19VDC, and 24VDC 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

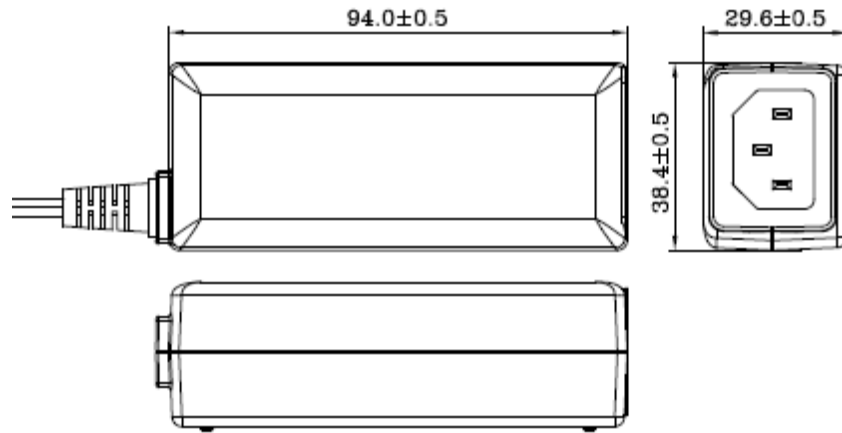


### Specifications:

	Model	FSP015-DPAN2	FSP025-DHAN2	FSP025-DBAN2	FSP025-DAAN2
Output	Rated Voltage	5V	12V	19V	24V
	Current	0 ~ 3A	0 ~ 2.08A	0 ~ 1.32A	0 ~ 1.04A
	Watts	15W	25W	25W	25W
	Voltage Regulation	±5%			
	Overshoot	±10%			
	Dynamic Load Change	±10%			
	Ripple & Noise (Max.)	120mVp-p	150mVp-p	300mVp-p	300mVp-p
	Turn on Time (Max.)	3Sec			
	Rise Time (Max.)	25ms			
	Hold up Time (Min.)	8ms	5ms	5ms	5ms
	Efficiency (Typical)	81.84% DOE IV / CoC Tier 2	87% ~ 88% DOE IV / CoC Tier 2	88% DOE IV / CoC Tier 2	88% ~ 89% DOE IV / CoC Tier 2
Input	Voltage Range	90 ~ 264Vac			
	Frequency Range	47 ~ 63Hz(±1Hz)			
	Current (Max.)	0.5A	0.8A	0.8A	0.8A
	Inrush Current (cold start, full load, 25°C)	21.2A @100Vac 47A@240Vac	25.4A@110Vac 46A@240Vac	25.4A@110Vac 46A @240Vac	25.4A@110Vac 46A @240Vac
	Leakage Current (Max.)	0.25mA at 264VAC/50Hz			
	No Load Power Consumption	0.075W			
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 <sup>2</sup> /Hz at 5Hz, slopping to 0.02g <sup>2</sup> /Hz at 20Hz, And maintain 0.02g <sup>2</sup> /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)	94 x 38.4x 29.6 mm			
	Adapter Weight (Typical)	185g			
	MTBF	Above 500K hours, Telcordia SR-332 (25°C)			
Note	Contact SPI for further information				



### Mechanical Drawing (mm)


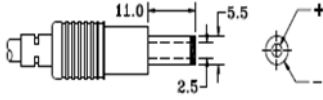
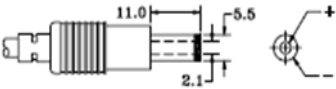
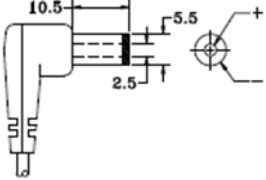
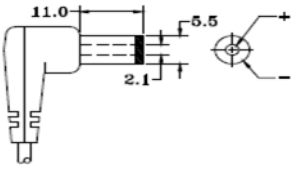
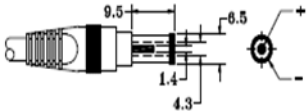


### Optional Output DC Plugs

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	FSP015-DPAN2 FSP025-DHAN2 FSP025-DBAN2 FSP025-DAAN2	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	FSP015-DPAN2 FSP025-DHAN2 FSP025-DBAN2 FSP025-DAAN2	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	FSP015-DPAN2 FSP025-DHAN2 FSP025-DBAN2 FSP025-DAAN2	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)	FSP015-DPAN2 FSP025-DHAN2 FSP025-DBAN2 FSP025-DAAN2	4-pin socket Kycon P/N: KPJX-4S-S or equivalent
	1: +V 2: +V 3: -V 4: -V Shell: -V & AC GND	Male 4-pin plug with lock (molding type)	FSP015-DPAN2 FSP025-DHAN2 FSP025-DBAN2 FSP025-DAAN2	4-pin socket Kycon P/N: KPJX-4S-S or equivalent



## FSP015/025-DxAN2 Series AC-DC POWER SUPPLY

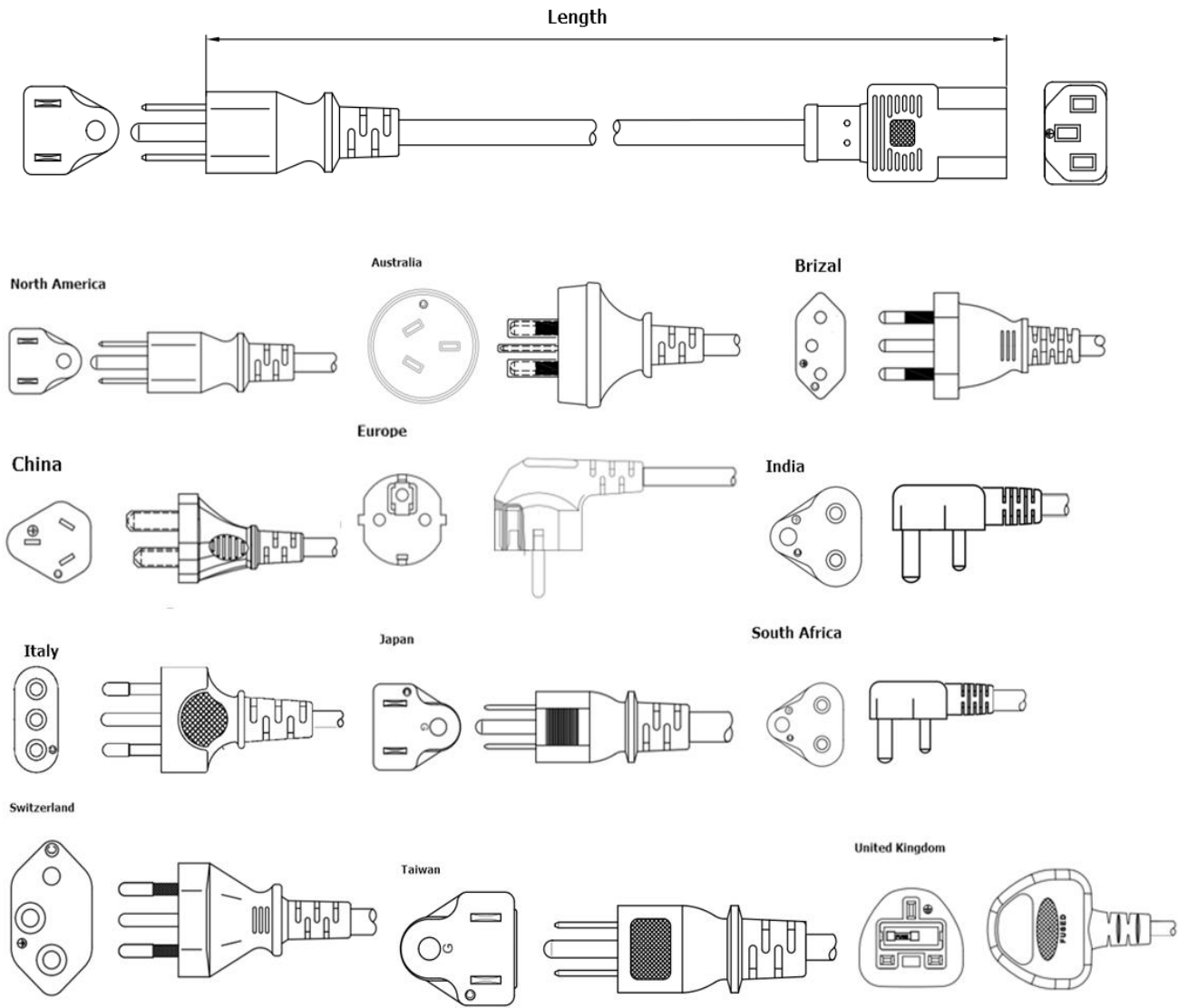
	1: -V    2: +V	2-pin receptacle housing Molex 39-01-3025 with female terminal #5556 series or equivalent	FSP015-DPAN2 FSP025-DHAN2 FSP025-DBAN2 FSP025-DAAN2	Molex plug housing 39-01-2021 with male terminal #5558 series or equivalent
	Center: +V Sleeve: -V	Barrel female connector (Fork & Groove type)	FSP015-DPAN2 FSP025-DHAN2 FSP025-DBAN2 FSP025-DAAN2	Switchcraft, Type: RA712 or equivalent
	Center: +V Sleeve: -V	Barrel female connector (Fork & Groove type)	FSP015-DPAN2 FSP025-DHAN2 FSP025-DBAN2 FSP025-DAAN2	Switchcraft, Type: RA722 or equivalent
	Center: +V Sleeve: -V	Barrel right angle female connector (Fork & Groove type)	FSP015-DPAN2 FSP025-DHAN2 FSP025-DBAN2 FSP025-DAAN2	Switchcraft, Type: RA712 or equivalent
	Center: +V Sleeve: -V	Barrel right angle female connector (Fork & Groove type)	FSP015-DPAN2 FSP025-DHAN2 FSP025-DBAN2 FSP025-DAAN2	Barrel right angle female connector (Fork & Groove type)
	Center: +V Sleeve: -V	EIAJ RC-5320A plug type B with internal pin EIAJ-05 plug	FSP015-DPAN2 FSP025-DHAN2 FSP025-DBAN2 FSP025-DAAN2	Lumberg 1613 11 or Lumberg 1614 05 or equivalent

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  
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