



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 12/24 /48/54Vdc Output
- Output Power: 50W to 65W
- 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 FSP050/65-D(I)xAN2 series are highly reliable AC-DC switching power supplies with output power from 50W to 65W. All models of adapters provide different output voltages 12VDC, 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

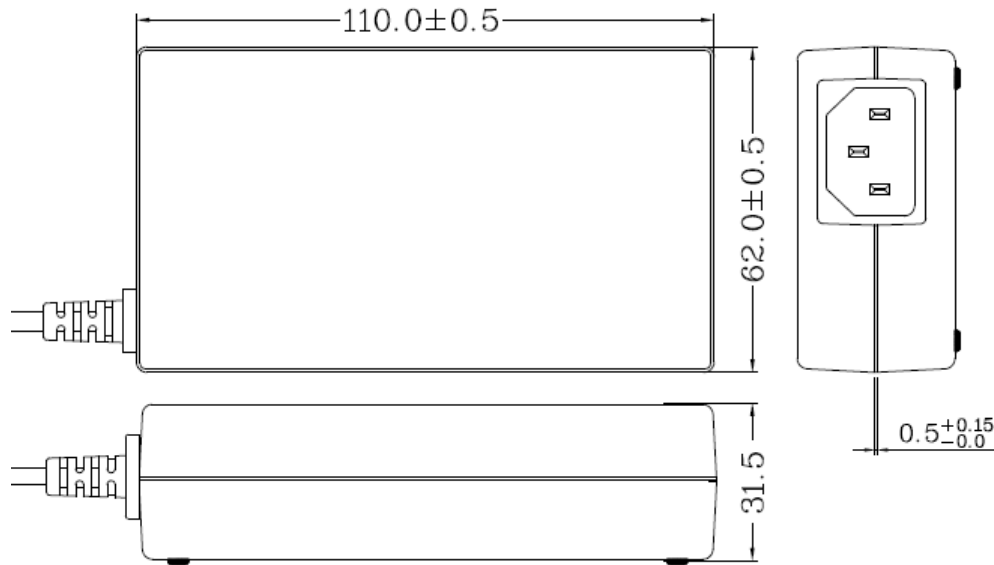


Specifications:

	Model	FSP050-DIBAN2	FSP060-DIBAN2	FSP050-DAAN2	FSP060-DAAN2	FSP065-DFAN2	FSP065-DWAN2
Output	Rated Voltage	12V	12V	24V	24V	48V	54V
	Current	0 ~ 4.2A	0 ~ 5A	0 ~ 2.1A	0 ~ 2.5A	0 ~ 1.4A	0 ~ 1.2A
	Watts	50W	60W	50W	60W	65W	65W
	Voltage Regulation	±5%					
	Overshoot	±10%					
	Dynamic Load Change	±10%					
	Ripple & Noise (Max.)	120mVp-p	200mVp-p	120mVp-p	200mVp-p	480mVp-p	540mVp-p
	Turn on Time (Max.)	3Sec					
	Rise Time (Max.)	40ms					
	Hold up Time (Min.)	8ms					
	Efficiency (Typical)	88% DOE VI & COC tier 1	88% DOE VI & COC tier 1	89% DOE VI & COC tier 2	89% ~ 90% DOE VI & COC tier 2	89% ~ 90% DOE VI & COC tier 2	89% ~ 90% DOE VI & COC tier 2
Input	Voltage Range	90 ~ 264Vac					
	Frequency Range	47 ~ 63Hz(±1Hz)					
	Current (Max.)	1.5A	1.5A	1.5A	1.5A	1.8A	1.8A
	Inrush Current (cold start, full load, 25°C)	68A @100Vac 144A@240Vac	59A@110Vac 152A@240Vac	53.2A@110Vac 99A @240Vac	63.5A@110Vac 72A @240Vac	41.5A@110Vac 81A @240Vac	42.5A@110Vac 69.5A @240Vac
	Leakage Current (Max.)	0.25mA at 264VAC/50Hz					
	No Load Power Consumption	0.1W					
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	-20~70°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)	110*62.2*31.3 mm					
	Adapter Weight (Typical)	350g					
	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	FSP050-DIBAN2 FSP060-DIBAN2 FSP050-DAAN2 FSP060-DAAN2 FSP065-DFAN2 FSP065-DWAN2	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	FSP050-DIBAN2 FSP060-DIBAN2 FSP050-DAAN2 FSP060-DAAN2 FSP065-DFAN2 FSP065-DWAN2	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	FSP050-DIBAN2 FSP060-DIBAN2 FSP050-DAAN2 FSP060-DAAN2 FSP065-DFAN2 FSP065-DWAN2	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)	FSP050-DIBAN2 FSP060-DIBAN2 FSP050-DAAN2 FSP060-DAAN2 FSP065-DFAN2 FSP065-DWAN2	4-pin socket Kycon P/N: KPJX-4S-S or equivalent



FSP050/065-D(I)xAN2 Series AC-DC POWER SUPPLY

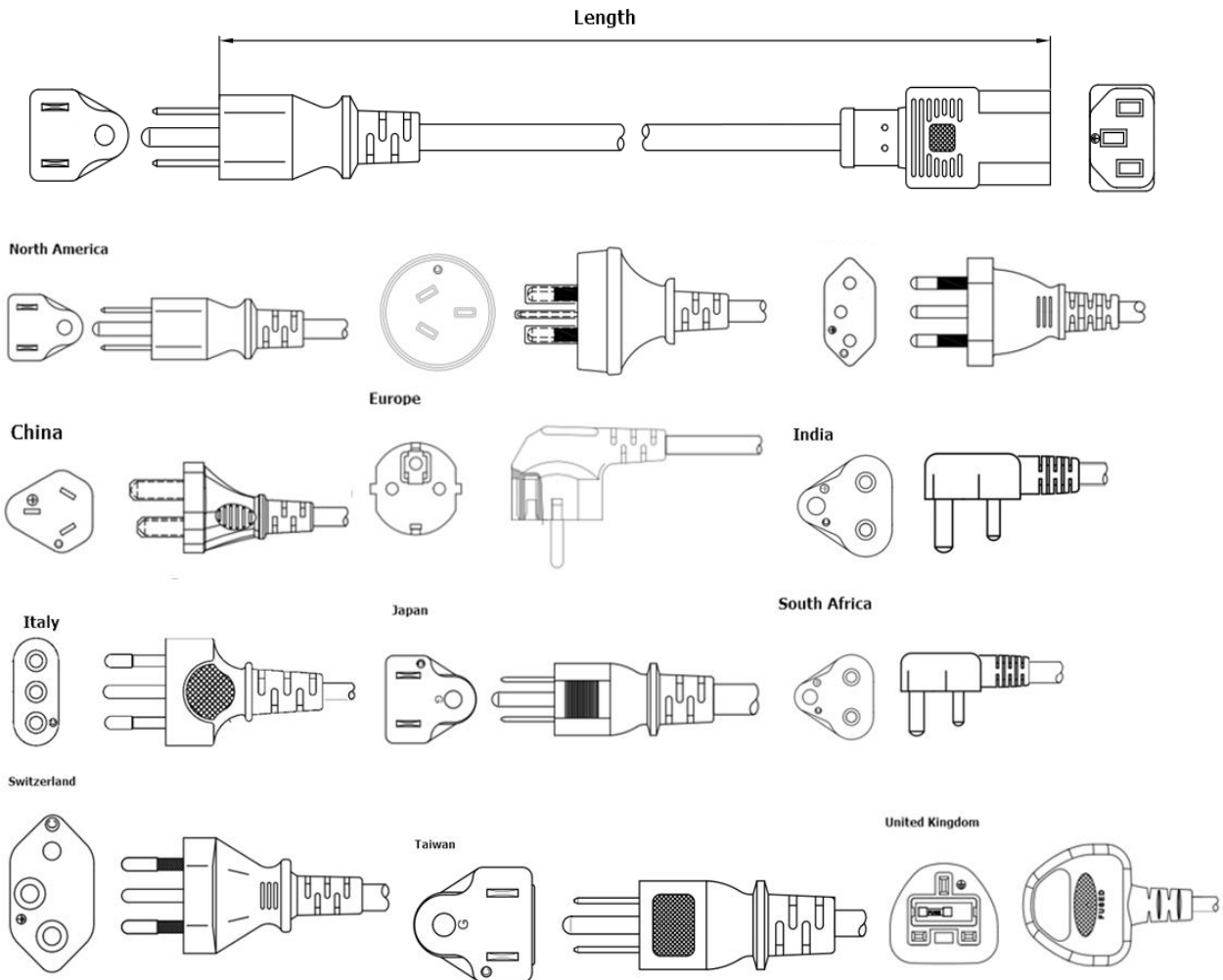
			FSP065-DWAN2	
	1: +V 2: +V 3: -V 4: -V Shell: -V & AC GND	Male 4-pin plug with lock (molding type)	FSP050-DIBAN2 FSP060-DIBAN2 FSP050-DAAN2 FSP060-DAAN2 FSP065-DFAN2 FSP065-DWAN2	4-pin socket Kycon P/N: KPJX-4S-S or equivalent
	1: -V 2: +V	2-pin receptacle housing Molex 39-01-3025 with female terminal #5556 series or equivalent	FSP050-DIBAN2 FSP060-DIBAN2 FSP050-DAAN2 FSP060-DAAN2 FSP065-DFAN2 FSP065-DWAN2	Molex plug housing 39-01-2021 with male terminal #5558 series or equivalent
	Center: +V Sleeve: -V	Barrel female connector (Fork & Groove type)	FSP050-DIBAN2 FSP060-DIBAN2 FSP050-DAAN2 FSP060-DAAN2 FSP065-DFAN2 FSP065-DWAN2	Switchcraft, Type: RA712 or equivalent
	Center: +V Sleeve: -V	Barrel female connector (Fork & Groove type)	FSP050-DIBAN2 FSP060-DIBAN2 FSP050-DAAN2 FSP060-DAAN2 FSP065-DFAN2 FSP065-DWAN2	Switchcraft, Type: RA722 or equivalent
	Center: +V Sleeve: -V	Barrel right angle female connector (Fork & Groove type)	FSP050-DIBAN2 FSP060-DIBAN2 FSP050-DAAN2 FSP060-DAAN2 FSP065-DFAN2 FSP065-DWAN2	Switchcraft, Type: RA712 or equivalent
	Center: +V Sleeve: -V	Barrel right angle female connector (Fork & Groove type)	FSP050-DIBAN2 FSP060-DIBAN2 FSP050-DAAN2 FSP060-DAAN2 FSP065-DFAN2 FSP065-DWAN2	Barrel right angle female connector (Fork & Groove type)
	Center: +V Sleeve: -V	EIAJ RC-5320A plug type B with internal pin EIAJ-05 plug	FSP050-DIBAN2 FSP060-DIBAN2 FSP050-DAAN2 FSP060-DAAN2 FSP065-DFAN2 FSP065-DWAN2	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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