



Features

- Meet Efficiency Level VI; CoC Version 5 Tier 2
- Operation up to 5, 000 meters
- Full Range AC Input from 90 to 264 Vac
- IEC320-C14 AC Inlet
- Single regulated output for 12V and 24Vdc 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 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



Description

The SPI FSP050/065-DxAN3 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 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

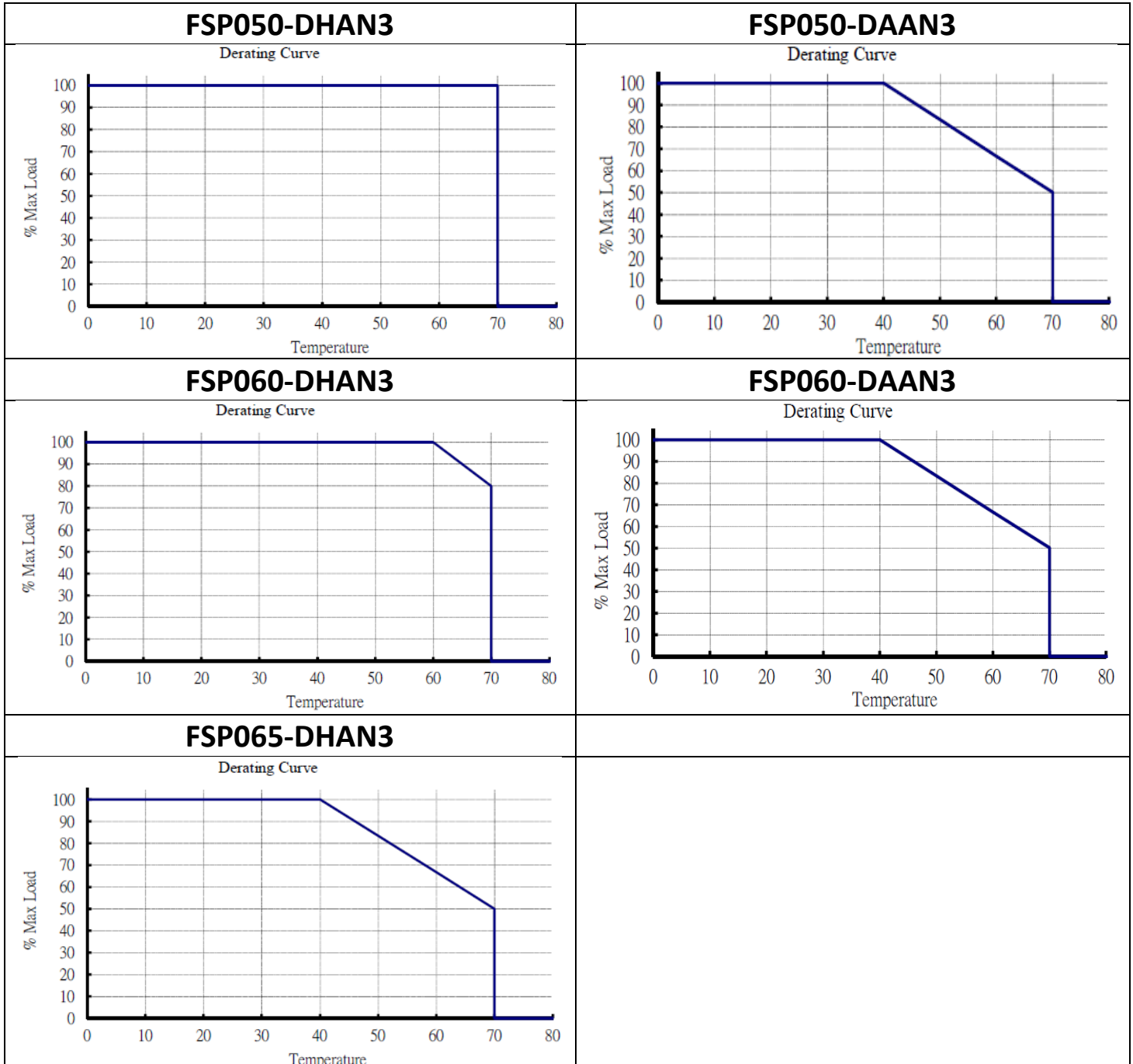


Specifications:

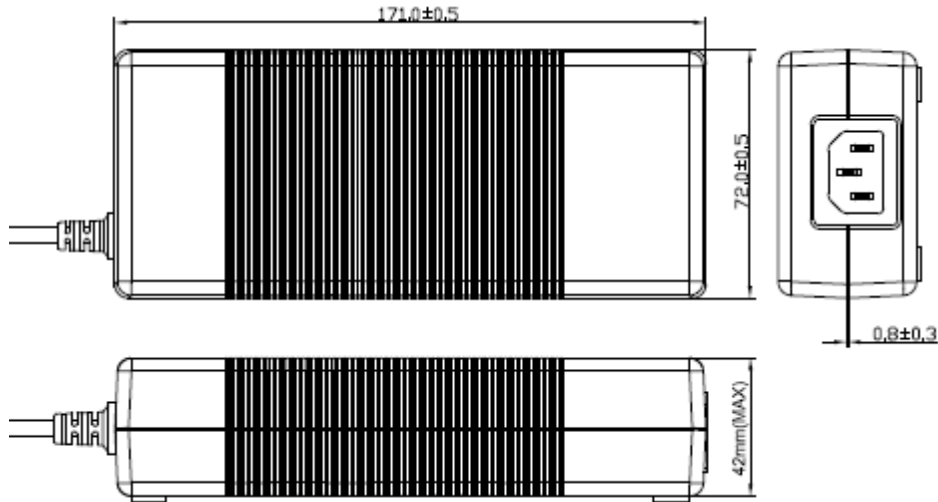
	Model	FSP050-DHAN3	FSP050-DAAN3	FSP060-DHAN3	FSP060-DAAN3	FSP065-DHAN3
Output	Rated Voltage	12V	24V	12V	24V	12V
	Current	0 ~ 4.17A	0 ~ 2.08A	0 ~ 5A	0 ~ 2.5A	0 ~ 5.42A
	Watts	50W	50W	60W	60W	65W
	Voltage Regulation	±5%				
	Overshoot	±10%				
	Dynamic Load Change	±10%				
	Ripple & Noise (Max.)	120mVp-p	200mVp-p	120mVp-p	200mVp-p	120mVp-p
	Turn on Time (Max.)	3Sec				
	Rise Time (Max.)	50ms				
	Hold up Time (Min.)	8ms				
	Efficiency (Average)	≥89%	≥89%	≥89%	≥89%	≥89%
Input	Voltage Range	90 ~ 264Vac				
	Frequency Range	47 ~ 63Hz(±1Hz)				
	Current (Max.)	1.8A	1.8A	1.8A	1.8A	1.8A
	Inrush Current (cold start, full load,25°C)	69A @100Vac 159A@240Vac	66.5A@110Vac 131A@220Vac	76A@100Vac 173A @240Vac	66.5@110Vac 131 @220Vac	73.5@100Vac 189 @240Vac
	Leakage Current (Max.)	0.25mA at 264VAC/50Hz				
	No Load Power Consumption	0.15W				
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; (EU) 2015/863				
	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% (safety) 40 to 70°C Linearly de-rating, need to check safety with system				
	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)	110 x 62.0 x 31.5 mm				
	Adapter Weight (Typical)	150g				
	MTBF	Above 300K hours, Telcordia SR-332 (25°C)				
Note	Contact SPI for further information					



Power Derating



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-DHAN3 FSP050-DAAN3 FSP060-DHAN3 FSP060-DAAN3 FSP065-DHAN3	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-DHAN3 FSP050-DAAN3 FSP060-DHAN3 FSP060-DAAN3 FSP065-DHAN3	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-DHAN3 FSP050-DAAN3 FSP060-DHAN3 FSP060-DAAN3 FSP065-DHAN3	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-DHAN3 FSP050-DAAN3 FSP060-DHAN3 FSP060-DAAN3 FSP065-DHAN3	4-pin socket Kycon P/N: KPJX-4S-S or equivalent



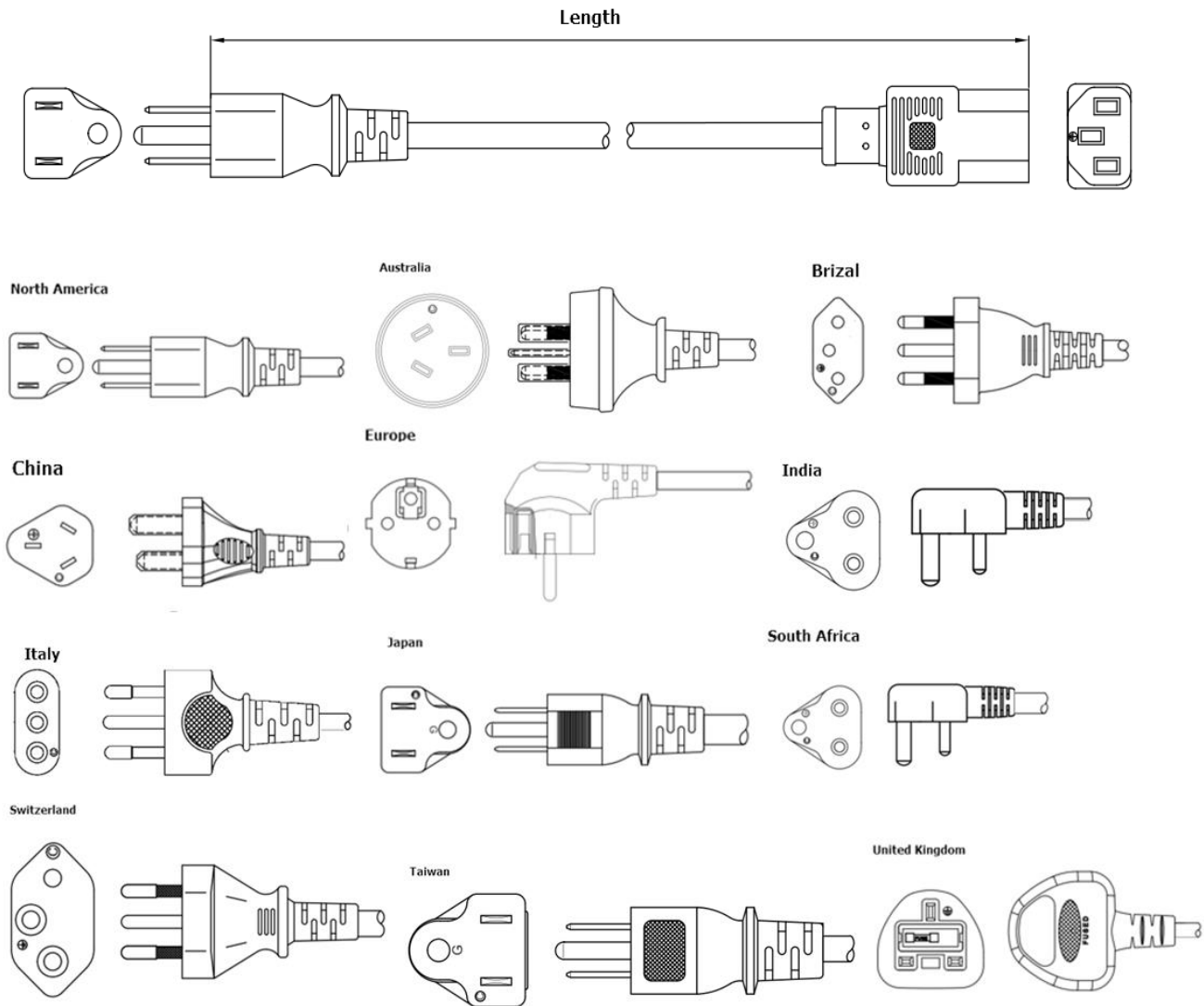
FSP050/065-DxAN3 Series AC-DC POWER SUPPLY

	<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>FSP050-DHAN3 FSP050-DAAN3 FSP060-DHAN3 FSP060-DAAN3 FSP065-DHAN3</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>FSP050-DHAN3 FSP050-DAAN3 FSP060-DHAN3 FSP060-DAAN3 FSP065-DHAN3</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>FSP050-DHAN3 FSP050-DAAN3 FSP060-DHAN3 FSP060-DAAN3 FSP065-DHAN3</p>	<p>Switchcraft, Type: RA712 or equivalent</p>
	<p>Center: +V Sleeve: -V</p>	<p>Barrel female connector (Fork & Groove type)</p>	<p>FSP050-DHAN3 FSP050-DAAN3 FSP060-DHAN3 FSP060-DAAN3 FSP065-DHAN3</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>FSP050-DHAN3 FSP050-DAAN3 FSP060-DHAN3 FSP060-DAAN3 FSP065-DHAN3</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>FSP050-DHAN3 FSP050-DAAN3 FSP060-DHAN3 FSP060-DAAN3 FSP065-DHAN3</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>FSP050-DHAN3 FSP050-DAAN3 FSP060-DHAN3 FSP060-DAAN3 FSP065-DHAN3</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
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