



### 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 from 12 Vdc Output
- Output Power: 75W and 84W
- 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, NOM-029 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 FSP075/084-DHAN3 series are highly reliable AC-DC switching power supplies with output power from 75W to 84W. All models of adapters provide different output voltages 12VDC 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:

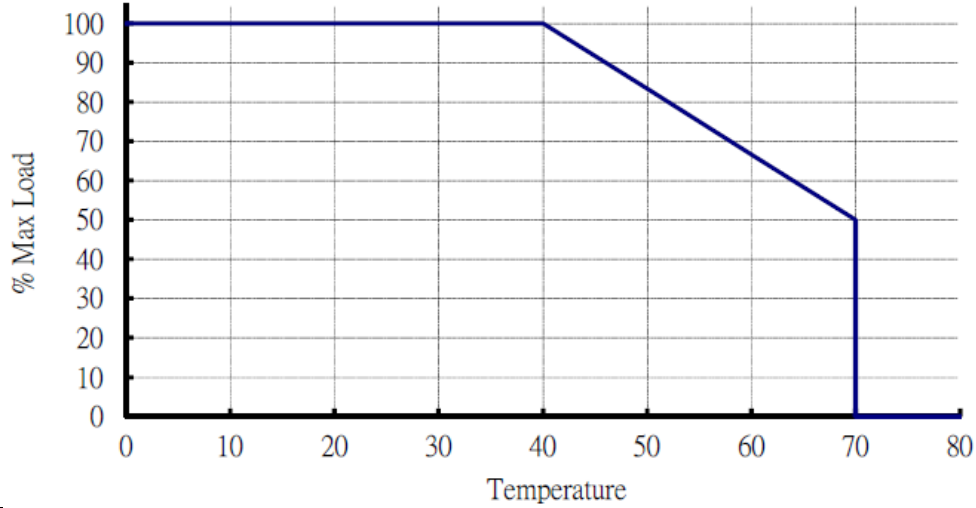
	Model	FSP075-DHAN3	FSP084-DHAN3
<b>Output</b>	Rated Voltage	12V	12V
	Current	0 ~ 6.25A	0 ~ 7A
	Watts	75W	84W
	Voltage Regulation	±5%	
	Overshoot	±10%	
	Dynamic Load Change	±10%	
	Ripple & Noise (Max.)	150mVp-p	
	Turn on Time (Max.)	3Sec	
	Rise Time (Max.)	30ms	
	Hold up Time (Min.)	10ms	
	Efficiency (Typical)	89%	90%
<b>Input</b>	Voltage Range	90 ~ 264Vac	
	Frequency Range	47 ~ 63Hz(±1Hz)	
	Current (Max.)	1.2A	1.3A
	Inrush Current (cold start, full load, 25°C)	48.5A @100Vac 90.5A @240Vac	50A @110Vac 123A @240Vac
	Leakage Current (Max.)	0.125mA at 264VAC/50Hz	
	No Load Power Consumption	0.15W	
<b>Protection</b>	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	
<b>Safety &amp; Compliance</b>	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	
<b>Environment</b>	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 <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	
<b>Other</b>	Dimension ((L*W*H)	160 x 58 x 32.3mm	
	Adapter Weight (Typical)	400g	
	MTBF	Above 500K hours, Telcordia SR-332 (25°C)	
<b>Note</b>	Contact SPI for further information		



### Power Derating

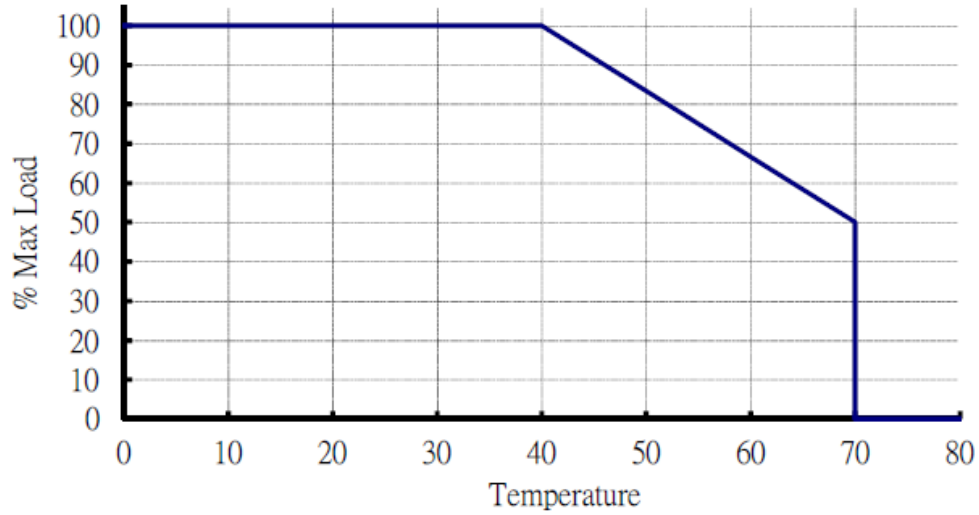
#### FSP075-DHAN3

Derating Curve

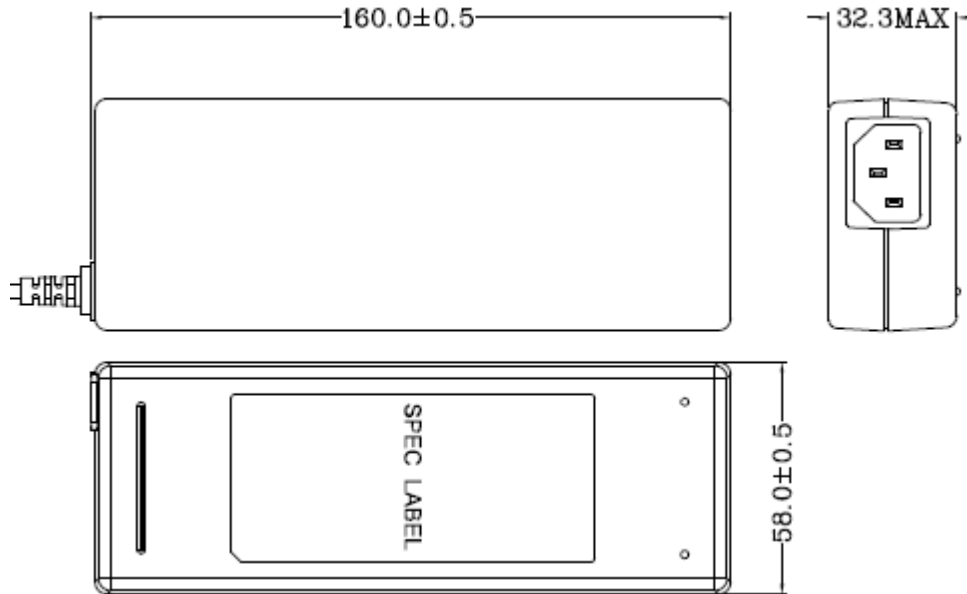


#### FSP084-DHAN3

Derating Curve



### 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	FSP075-DHAN3 FSP084-DAAN3	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	FSP075-DHAN3 FSP084-DAAN3	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	FSP075-DHAN3 FSP084-DAAN3	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)	FSP075-DHAN3 FSP084-DAAN3	4-pin socket Kycon P/N: KPJX-4S-S or equivalent



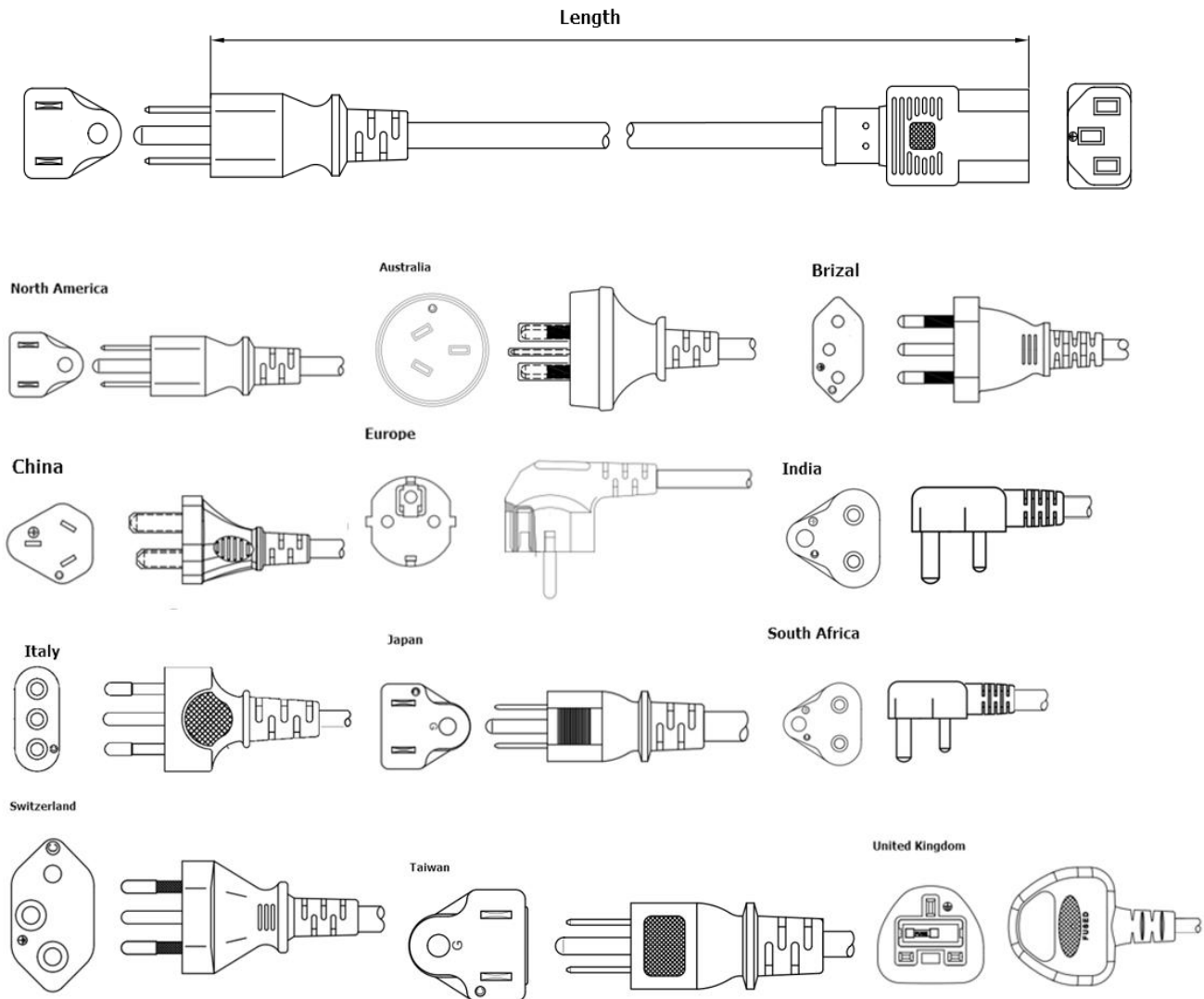
## FSP075/084-DHAN3 Series AC-DC POWER SUPPLY

	<p>1: +V    2: +V 3: -V    4: -V Shell: -V &amp; AC GND</p>	<p>Male 4-pin plug with lock (molding type)</p>	<p>FSP075-DHAN3 FSP084-DAAN3</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>FSP075-DHAN3 FSP084-DAAN3</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 &amp; Groove type)</p>	<p>FSP075-DHAN3 FSP084-DAAN3</p>	<p>Switchcraft, Type: RA712 or equivalent</p>
	<p>Center: +V Sleeve: -V</p>	<p>Barrel female connector (Fork &amp; Groove type)</p>	<p>FSP075-DHAN3 FSP084-DAAN3</p>	<p>Switchcraft, Type: RA722 or equivalent</p>
	<p>Center: +V Sleeve: -V</p>	<p>Barrel right angle female connector (Fork &amp; Groove type)</p>	<p>FSP075-DHAN3 FSP084-DAAN3</p>	<p>Switchcraft, Type: RA712 or equivalent</p>
	<p>Center: +V Sleeve: -V</p>	<p>Barrel right angle female connector (Fork &amp; Groove type)</p>	<p>FSP075-DHAN3 FSP084-DAAN3</p>	<p>Barrel right angle female connector (Fork &amp; Groove type)</p>
	<p>Center: +V Sleeve: -V</p>	<p>EIAJ RC-5320A plug type B with internal pin EIAJ-05 plug</p>	<p>FSP075-DHAN3 FSP084-DAAN3</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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