

Features

- IP67 Design For LED Outdoor & Industrial Application
- Constant Current Design / Low Ripple Current
- Wide Input Range for worldwide use (up to 305Vac)
- With 12V/200mA Auxiliary Output
- Programming Function: AOC/Auto-dimming/CLO/EOL/AST/ALO/NTC configuration
- High Surge Protection: 6kV/6kV(IEC61000-4-5)
- Multiple dimming function: (PWM signal, resistance)/ DALI
- Built-in PFC Function: up to PF 0.98
- High Reliability & Long Life up to 50,000hrs
- All-Round Protections: Short Circuit/ Over Voltage/ Over Temperature
- Safety: Meet IEC61347-2-13, UL8750 & EMI EN55015



Programmable



AMC Function



CLO



NTC-Config.



AutoDIM



AST



EOL



(Safety pending)

IP67



Class P

SPECIFICATION

Model Name		FSP320-SZAE1(105)DG	FSP320-SZAE1(140)DG
Output	Rated Power	320.25W	320.6W
	Output Voltage	152-305V	114-229V
	Rated Current	1.05A	1.4A
	Output Current Accuracy	±5%	±5%
	Output Ripple Current (typ.)[2]	±5%	±5%
	Line Regulation	±1%	±1%
	Turn On Delay Time,Rise time	≤600ms max@120Vac ; ≤300ms max@230Vac	
Input	Input Voltage/ Frequency[3]	90~305Vac/ 47~63Hz (Please refer to Static Curve)	
	Power Factor (typ.)	PF ≥ 0.98/120Vac, PF ≥ 0.95/230Vac, PF ≥ 0.92/277Vac at full load	
	Efficiency (max.)	94%	94%
	Total Harmonic Distortion[4]	THD < 20% (@ load ≥ 50% /120VAC, 230VAC; @ load ≥ 70%/277VAC)	
	AC Current (typ.)	≤ 3.5A /120Vac ; ≤ 1.65A /230Vac ; ≤ 1.45A /277Vac	
	Inrush Current (typ.)	≤ 80A at 230Vac, 25°C cold start	
	Leakage Current	≤ 2.5mA/277Vac	
Environment	Operating Temperature	-40°C ~ +70°C (Please Refer to "Derating Curve")	
	Operating Humidity	20~95% RH non-condensing	
	Storage Temperature, Humidity	-40°C~+80°C, 10%~95%RH	
	Vibration	0.02g ² /Hz at 5 Hz sloping to 0.04g ² /Hz at 20 Hz, and maintaining 0.04g ² /Hz from 20 Hz to 500 Hz at a constant acceleration of 4.43G for 30 minutes per axis for all three axes	
Protection	Over Voltage Protection	<280V	<360V
	Short Circuit Protection	Recovers automatically after fault condition is removed	
	Over Temperature Protection	Recovers automatically after fault condition is removed	
	Safety Standards	Design Refer to EN61347-1, EN61347-2-13, UL8750	
Safety & EMC	EMC Standard	Compliant with EN55015/CISPR22 CLASS B, Compliant with EN61000-3-2 Class C (≥80% load), EN61000-3-3	
	Surge Protection	Differential Mode: 6KV; Common Mode: 6KV	
	Withstand Voltage (Hipot)	I/P-O/P 3600Vac, I/P-FG 1500Vac, O/P-FG 1500Vac	
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 25M ohm @ 500Vdc/ 25°C	
Others	Life Time [5]	50,000 hours at Tcase of ≤ 75°C	
	MTBF	157.8K hours, MIL-HDBK-217F(25°C)	
	Dimension (LxWxH)	285 x 84 x 42.5 mm	
	Net Weight / Packing	1780g; 10 pcs/ box	

Notes:

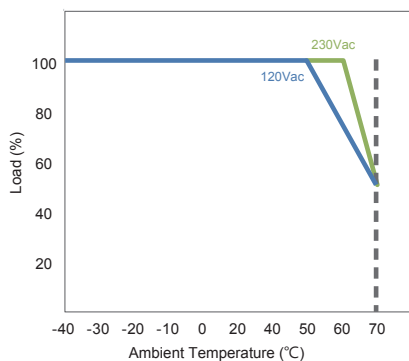
1. All data NOT specially mentioned are measured at 230Vac/ 50Hz input, full load and 25°C of ambient temperature
2. The ripple current must be measured under the condition of AC coupling & 20MHz bandwidth. (Rated input and rated output)
3. Derating may be needed under low input voltages. Please check the static characteristics for more details
4. Measured at rated output voltage
5. Measured at 230Vac/50Hz input, rated load.
6. Length of set up time is measured at first cold start. Turning ON/OFF the may lead to increase of the set up time.driver.
7. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.



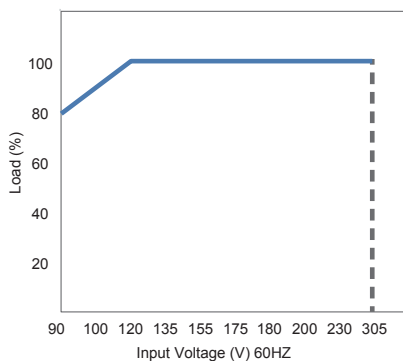
FSP TECHNOLOGY INC.

www.fsp-group.com / sales@fsp-group.com.tw
 NO.22,Jianguo E. Rd., Taoyuan City, Taiwan, R.O.C.
 TEL : +886-3-375-9888 / FAX : +886-3-375-6966

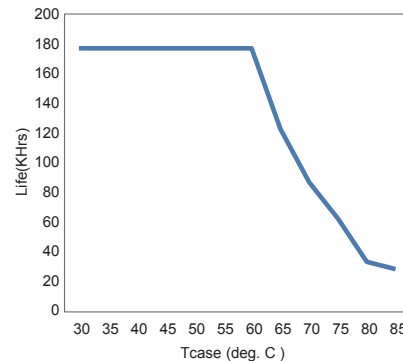
Derating Curve



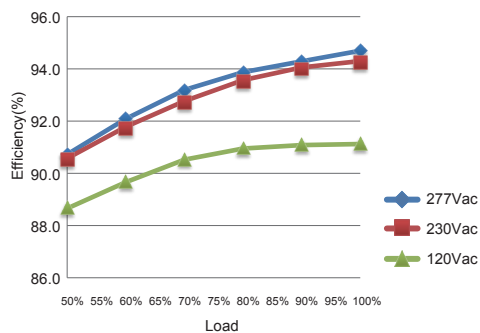
Static Curve



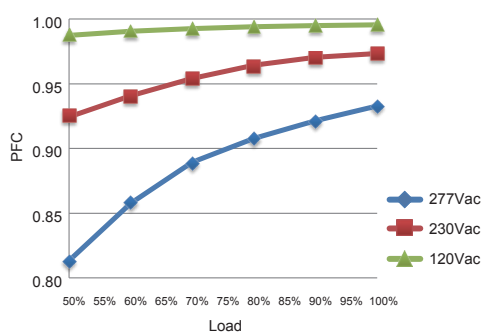
Life Time



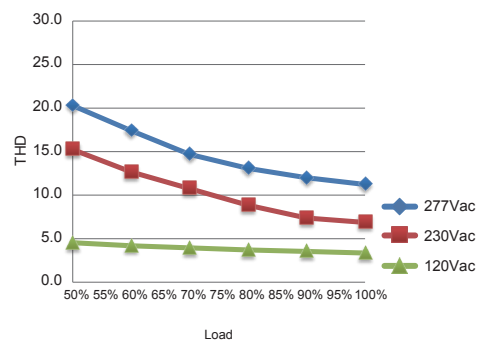
Efficiency



PFC vs Loading



THD vs loading



Unit: mm



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