

Features

- · For LED Outdoor & Industrial Application
- · Wide Input Range for Worldwide use (up to 305Vac)
- · Built-in PFC Function: up to PF 0.98
- \cdot IP67 Design for Outdoor Installation
- · Suitable to Dry, Damp, Wet Location
- · High Surge Protection: 6kV/6kV(IEC61000-4-5)
- · 3 in 1 dimming: 1-10V/PWM/Resistance
- · High Reliability & Long Life 50,000hrs
- · Constant Current Design/ Low Ripple Current
- · All-Round Protections: Short Circuit/ Over Voltage/ Over Temperature
- · Safety: Meet IEC61347-2-13, UL8750 & EMI EN55015



320W High Efficiency Dimmable Driver



FSP320-SZAE(XXX)MG

M Type: IP67 rated with 1-10V, PWM Dimming Function

R Type: IP65 rated and output current can be adjusted through internal potentionmeter

□ IP65 IP67 F TIO W W HL CE SUSTED Class P

Model Name		FSP320-SZAE(105)MG [8]	FSP320-SZAE(140)MG	FSP320-SZAE(210)MG	FSP320-SZAE(280)MG
	Rated Power	320.25W	320.6W	319.2W	319.2W
Output	Output Voltage	152-305V	114-229V	76-152V	57-114V
	Rated Current	1.05A	1.4A	2.1A	2.8A
	Output Current Accuracy	±5%	±5%	±5%	±5%
	Output Ripple Current (typ.)[2]	±5%	±5%	±5%	±5%
	Line Regulation	±1%	±1%	±1%	±1%
	Turn On Delay Time ; Rise time	≤1s max ; ≤300ms max			
Input	Input Voltage/ Frequency[3]	90~305Vac/ 47~63Hz (Please refer to Stactic Curve)			
	Power Factor (typ.)	PF≧0.98/120Vac, PF≥0.95/230Vac, PF≥0.92/277Vac at full load			
	Efficiency (max.)	94%	94%	94%	94%
	Total Harmonic Distortion[4]	THD <20% (Output Loading ≧50% at 120-277Vac)			
	AC Current (typ.)	≦3.5A /120Vac ; ≦1.56A /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	10~95% RH non-condensing			
	Storage Temperature, Humidity	-40°C~+85°C, 5%~95%RH			
	Vibration	0.02g²/Hz at 5 Hz sloping to 0.04g²/Hz at 20 Hz, and maintaining 0.04g²/Hz from 20 Hz to 500 Hz at a constant acceleration of 4.43G			
		30 minutes per axis for all three axes			
Protection	Over Voltage Protection	<400V	<400V	<200V	<200V
		Protection Type: Recovers automatically after fault condition is removed			
	Short Circuit Protection	Recovers automatically after fault condition is removed			
	Over Temperature Protection	Recovers automatically after fault condition is removed			
Safety & EMC	Safety Standards	Design Refer to EN61347-1, EN61347-2-13, UL8750			
	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: 100M ohm @ 500Vdc/ 25°C			
Others	Life Time [5]	50,000 hours at Tcase of ≤ 80°C			
	MTBF	200,000 hours, MIL-HDBK-217F(25°C)			
	Dimension (LxWxH)	260 x 84 x 42.5 mm			
		1650g; 10 pcs/ box			

- 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)
- Derating may be needed under low input voltages. Please check the static characteristics for more details.
 Measured at rated output voltage.

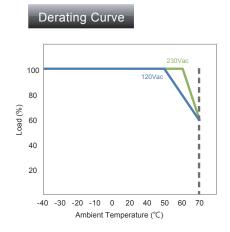
- 5. Measured at 230Vac/50Hz input, rated load.
 6. Length of set up time is measured at first cold start. Turning ON/OFF the may lead to increase of the set up time.driver.
- 7. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 8. UL/CE safety pending

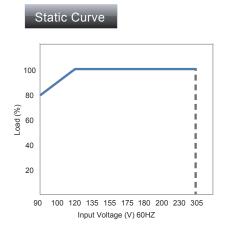


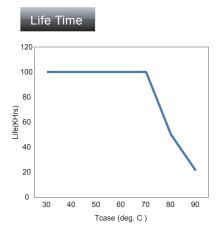
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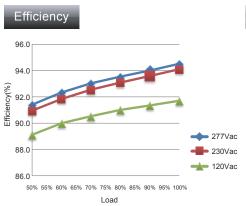
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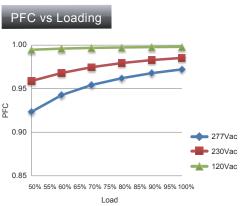


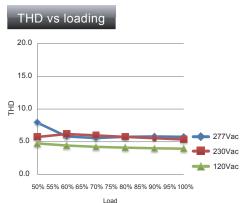






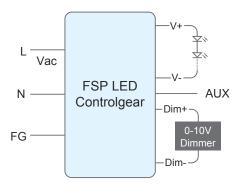


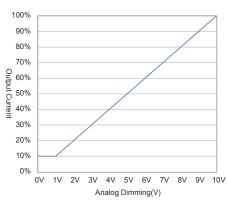




0-10V Dimming Curve

*Direct connecting to LEDs is suggested





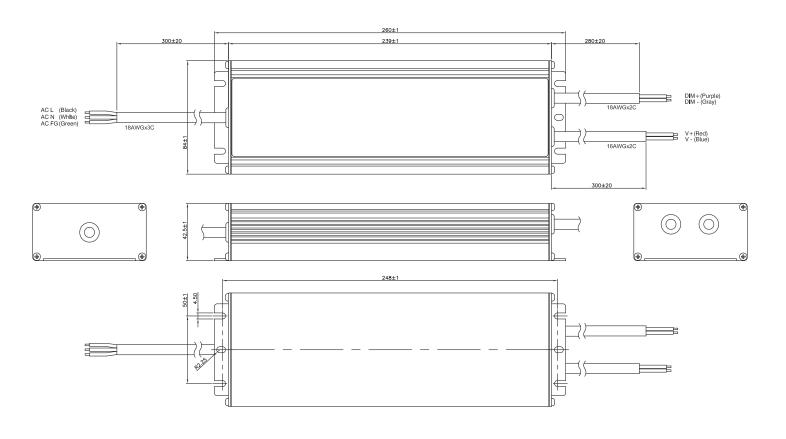
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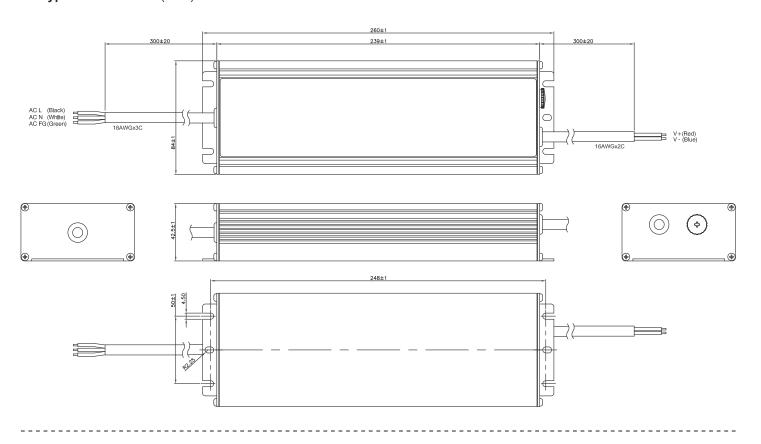


MG Type: FSP320-SZAE(XXX)MG

Unit: mm



RG Type: FSP320-SZAE(XXX)RG



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