



120W High Efficiency Constant Voltage Driver

Features

- · For LED Outdoor & Industrial Application
- · Wide Input Range for Worldwide use (up to 305Vac)
- · Built-in PFC Function: up to PF 0.99
- · IP67 Design for Outdoor Installation
- · Suitable to Dry, Damp, Wet Location
- · High Surge Protection: 6kV/6kV(IEC61000-4-5)
- · High Reliability & Long Life 50,000hrs
- · Type HL LED Driver for use in Class I Division 2 Hazardous Location Luminaires
- · All-Round Protections: Short Circuit/ Over Voltage/ Over Temperature
- · Safety: Meet IEC61347-2-13, UL8750 & EMI EN55015





FSP120-FZAE1(500) MG R Type: IP67 rated with Io & Vo fix M Type: IP67 rated with 1-10V, PWM Dimming Function

Model Name		FSP120-FZAE1(230)RG54	FSP120-FZAE1(250)RG48	FSP120-FZAE1(340)RG36	FSP120-FZAE1(500)RG24
Output	Rated Power	120W	120W	120W	120W
	Output Voltage	54V	48V	36V	24V
	Rated Current	0~2.3A	0~2.55A	0~3.4A	0~5A
	Output Voltage Accuracy	±5%	±5%	±5%	±5%
	Output Ripple & Noise (typ.)[2]	540mVp-p	480mVp-p	360mVp-p	240mVp-p
	Load Regulation	±5%	±5%	±5%	±5%
	Line Regulation	±5%	±5%	±5%	±5%
	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≧0.99/120Vac, PF≧0.96/230Vac, PF≧0.95/277Vac at full load			
	Efficiency (max.)	93.5%	93.5%	93.5%	93%
	Total Harmonic Distortion[4]	THD <20% (Output Loading ≥50% at 120Vac, Output Loading ≥50% at 230Vac, Output Loading ≥75% at 277Vac)			
	AC Current (typ.)	≦1.5A /100Vac ; ≦0.7A /230Vac ; ≦0.7A /277Vac			
	Inrush Current (typ.)	≦60A at 230Vac, 25°C cold start			
	Leakage Current	≤0.75mA/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			
	Vihantina	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 for			
	Vibration	30 minutes per axis for all three axes			
Protection	Over Voltage Protection	<80V	<63V	<63V	<35V
		Protection Type: Recovers automatically after fault condition is removed			
	Over Current Protection	<150%			
		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	UL8750, Type HL, CSA-C22.2 No. 250.13, EN61347-1, EN61347-2-13 Approved.			
	EMC Standard	Compliant with EN55015/CISPR22 CLASS B, Compliant with EN61000-3-2 Class C (≥60% load), EN61000-3-3			
	Surge Protection	Differential Mode: 6KV; Common Mode: 6KV			
	Withstand Voltage (Hipot)	I/P-O/P 3000Vac, I/P-FG 1500Vac, O/P-FG 500Vac			
	Isolation Resistance	I/P-CASE ,O/P-CASE: 25M ohm @ 500Vdc/ 25°C			
Others	Life Time [5]	50,000 hours at Tcase of ≤ 75°C			
	MTBF	200,000 hours, MIL-HDBK-217F(25°C)			
	Dimension (LxWxH)	220 x 68 x 38.8 mm			
	Dimension (Extrain)	220 X 00 X 00:0 11111			

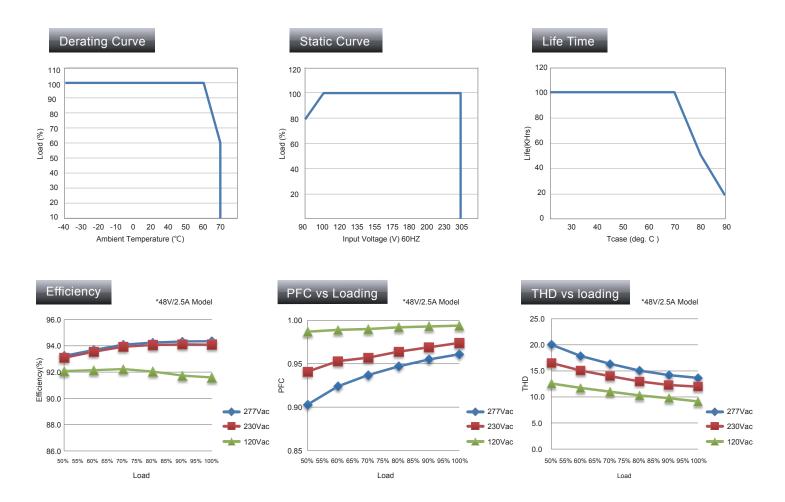
- 1. All data NOT specially mentioned are measured at 230Vac/ 50Hz input, full load and 25°C of ambient temperature
- 2. The ripple voltage must be measured under the condition of AC coupling & 20MHz bandwidth and terminated each output with a 47uF capacitor in parallel with a 0.1uF capacitor. (Rated input and rated output) 3. Derating may be needed under low input voltages. Please check the static characteristics for more details

- Measured at rated output voltage
 Measured at 230Vac/50Hz input, rated load.
- 6. 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."



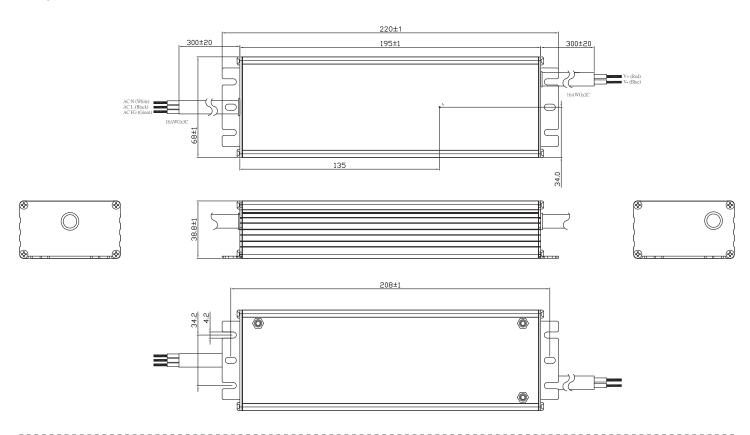
www.fsp-group.com / sales@fsp-group.com.tw NO.22, Jianguo E. Rd., Taoyuan City, Taiwan, R.O.C. TEL: +886-3-375-9888 / FAX: +886-3-375-6966





RG Type: FSP120-FZAE1(XXX)RG

Unit: mm



FSP TECHNOLOGY INC.

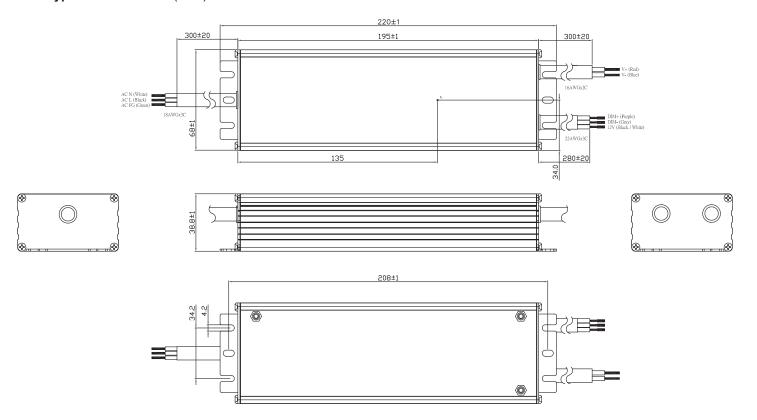
www.fsp-group.com / sales@fsp-group.com.tw NO.22,Jianguo E. Rd., Taoyuan City, Taiwan, R.O.C. TEL: +886-3-375-9888 / FAX: +886-3-375-6966





MG Type: FSP120-FZAE1(XXX)MG

Unit: mm



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