



200W High Efficiency Constant Voltage Driver

- · 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



Type IP67 ∃ ▼ ▼ ▼ ▼ C € SELV HL class P

R Type: IP67 rated with Io & Vo fix M Type: IP67 rated with 1-10V, PWM Dimming Function

Model Nema		F070000111/005414	ESB300OLIN/S049M	ESB200OLIV/S026M	E60200011/6024M
Model Name		FSP200OUVS054M	FSP200OUVS048M	FSP200OUVS036M	FSP200OUVS024M
Output	Rated Power	200W	200W	200W	200W
	Output Voltage	54V	48V	36V	24V
	Rated Current	0~3.7A	0~4.17A	0~5.55A	0~8.3A
	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	≤1s max ;≤300ms max			
Input	timeInput 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.)	≦2.1A /120Vac ; ≦1.15A /230Vac ; ≦0.95A /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			
		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			
	Vibration	30 minutes per axis for all three axes			
Protection	Over Voltage Protection	<80V			
		Protection Type: Recovers automatically after fault condition is removed			
	Over Current Protection	<150%	<63V	<63V	<35V
		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)	228 x 68 x 38.8 mm			
	Net Weight / Packing	1100g; 10 pcs/ box			

Notes

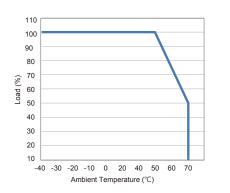
All data NOT specially mentioned are measured at 230Vac/ 50Hz input, full load and 25°C of ambient temperature
The ripple current must be measured under the condition of AC coupling & 20MHz bandwidth. (Rated input and rated output)
Derating may be needed under low input voltages. Please check the static characteristics for more details
Measured at rated output voltage

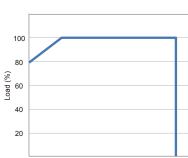
5. Measured at 230Vac/50Hz input, rated load. 6. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation,

the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.



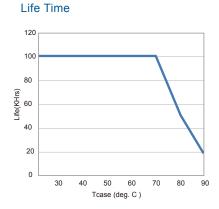
Derating Curve

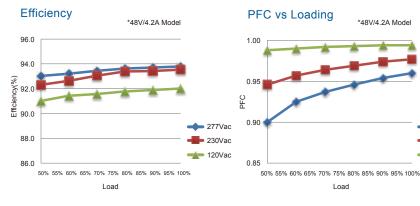




Static Curve

90 100 120 135 155 175 180 200 230 305





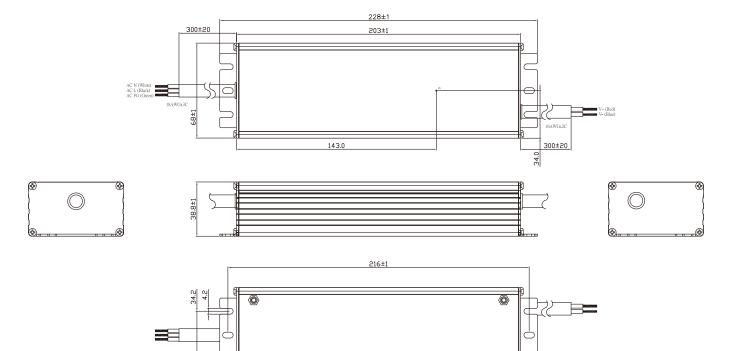
THD vs loading *48V/4.2A Model 25.0 20.0 15.0 머니 10.0 277Vac 5.0 230Vac 230Vac 🗽 120Vac 0.0 50% 55% 60% 65% 70% 75% 80% 85% 90% 95% 100% Load

Unit: mm

277Vac

🗽 120Vac

G Type:



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OUTDOOR LED DRIVER SERIES



