

SAE Series

200W High Efficiency Dimmable Driver



FSP200-FZAE(070) M G

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

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

Features

- · For LED Outdoor & Industrial Application
- · Wide Input Range for Worldwide use (up to 305Vac)
- · Built-in PFC Function: up to PF 0.99
- \cdot IP67 Design for Outdoor Installation
- · Suitable to Dry, Damp, Wet Location
- · High Surge Protection: 4kV/6kV(IEC61000-4-5)
- · 1-10V / PWM Dimming Function
- · High Reliability & Long Life 50,000hrs
- · Constant Current Design/ Low Ripple Current
- · Type HL LED Driver for use in Class I Division 2 Hazardous **Location Luminaires**
- · All-Round Protections: Short Circuit/ Over Voltage/ Over
- · Safety: Meet IEC61347-2-13, UL8750 & EMI EN55015

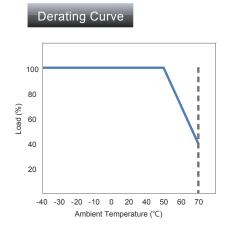
□ IP67 □ TI HL

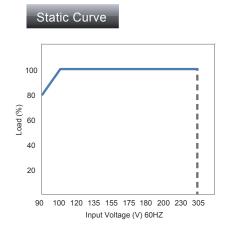
SPECIFICATION Model Name		E00000 E74 E(070)440	E00000 E74 E(405)MO	E00000 E74E(440)M0	500000 5745/045/MO		
woder warrie	D	FSP200-FZAE(070)MG	FSP200-FZAE(105)MG	FSP200-FZAE(140)MG	FSP200-FZAE(315)MG		
Output	Rated Power	200W	200W	200W	200W		
	Output Voltage	141-288V	93-192V	71-144V	34-64V		
	Rated Current	700mA	1.05A	1.4A	3.15A		
	CURRENT ADJ. RANGE	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA	1575 ~ 3150mA		
		Can be adjusted by internal potentiometer for R Type only					
	Output Current Accuracy	±5%	±5%	±5%	±5%		
	Output Ripple Current (typ.)[2]	±5%	±5%	±5%	±5%		
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%		
	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≧0.97/230Vac, PF≧0.96/277Vac at full load					
	Efficiency (max.)	93.5%	93.5%	93.5%	93.5%		
	Total Harmonic Distortion[4]	THD <20% (Output Loading ≧50% at 120Vac, Output Loading ≧70% at 230Vac, Output Loading ≧80% at 277Vac)					
	AC Current (typ.)	≦1.95A /120Vac ; ≦1.05A /230Vac ; ≦0.9A /277Vac					
	Inrush Current (typ.)	≦55A 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	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 for					
		30 minutes per axis for all three axes					
Protection	Over Voltage Protection	<350V	<240V	<180V	<85V		
		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[7]	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: 4KV; Common Mode: 6KV					
	Withstand Voltage (Hipot)	I/P-O/P 3000Vac, I/P-FG 1800Vac, O/P-FG 1800Vac					
	Isolation Resistance	I/P-CASE ,O/P-CASE: 25M ohm @ 500Vdc/ 25°C					
	Type TL [7]	87/58°C	88/60°C	-	88/59°C		
	Life Time [5]	50,000 hours at Tcase of ≤ 75°C					
		≥ 200,000 hours, MIL-HDBK-217F(25°C)					
	MTBF	= 200,000 Hours, WIL-HIDDR-2 I		228 x 68 x 38.8 mm			
Others	MTBF Dimension (LxWxH)		(====)				

- 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 230Vax/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. 7. FSP200-FZAE(140)MG is under development. Safety, Type TL Pending.

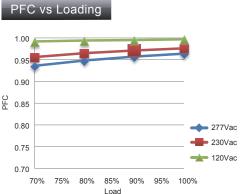


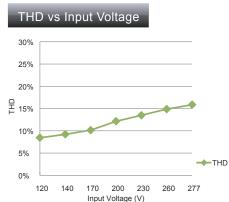






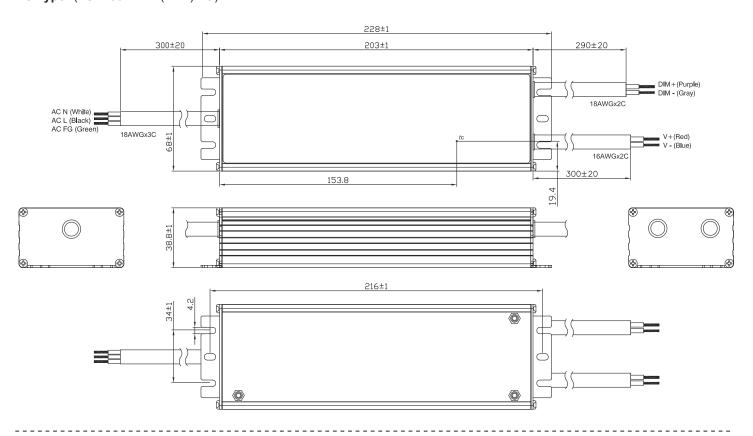






MG Type: (FSP200-FZAE(XXX)MG)

Unit: mm



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