

# IAE Series

## 60W High Efficiency 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
- · IP65 Design for Outdoor Installation
- $\cdot$  Suitable to Dry, Damp, Wet Location
- · High Reliability & Long Life 50,000hrs
- · Constant Current Design/ Low Ripple Current
- · Class I power unit
- · All-Round Protections: Short Circuit / Over Voltage / Over Temperature Protection
- · Safety: Meet IEC61347-2-13, UL8750 & EMI EN55015





Model Name		E0D00 774 E(440)11	F0D00 774 F(40F)11	E0D00 774 E(440) I	F0P00 774E/F00VI
wouer marrie	D-1-1 D	FSP60-ZZAE(110)U	FSP60-ZZAE(125)U	FSP60-ZZAE(140)U	FSP60-ZZAE(500)U
Output	Rated Power	60W	60W	60W	60W
	Output Voltage	36-54V	36-48V	30-40V	11.4-12.6V
	Rated Current	1100mA	1250mA	1400mA	5000mA
	Output Current Accuracy	±5%	±5%	±5%	±5%
	Output Ripple Current[2]	±5%	±5%	±5%	±5%
	Line Regulation	±1%	±1%	±1%	±1%
	Turn On Delay Time,Rise time	≤1s max; ≤100ms max.			
Input	Input Voltage/ Frequency[3]	108~305Vac/ 47~63Hz (Please refer to Static Curve)			
	Power Factor (typ.)	PF≧0.98/120Vac, PF≧0.94/240Vac, PF≧0.91/277Vac at full load			
	Efficiency (max.)	89%	89%	89%	86%
	Total Harmonic Distortion[4]	THD <20% (Output Loading ≧50% at 120Vac/230Vac, Output Loading ≧75% at 277Vac)			
	AC Current (typ.)	≦0.46A /120Vac ; ≦0.28A /230Vac ; ≦0.22A /277Vac			
	Inrush Current (typ.)	60A at 230Vac, 25°C cold start			
	Leakage Current	≤0.75mA/230Vac			
Environment	Operating Temperature	-40°C ~ +70°C (Please Refer to "Derating Curve") (-40°C cold start)			
	Operating Humidity	10~95% RH non-condensing			
	Storage Temperature, Humidity	-40°C~+85°C, 10~95%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	<75V	<63V	<63V	<25V
		Protection Type: Recovers automatically after fault condition is removed			
	Short Circuit Protection	Recovers automatically after fault condition is removed			
	Over Temperature Protection	Shut down and latch off O/P voltage, re-power on to recover			
Safety & EMC	Safety Standards	UL8750, 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: 2KV; Common Mode: 4KV			
	Withstand Voltage (Hipot)	I/P-O/P 3750Vac, I/P-FG 1800Vac, O/P-FG 500Vac			
	Isolation Resistance	I/P-O/P, I/P-FG: 100M 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)	195 x 60.5 x 38mm			
	Net Weight / Packing	580g; 20 pcs / box			

- 1. All data NOT specially mentioned are measured at 230Vac/ 50Hz input, full load and 25°C of ambient temperature.

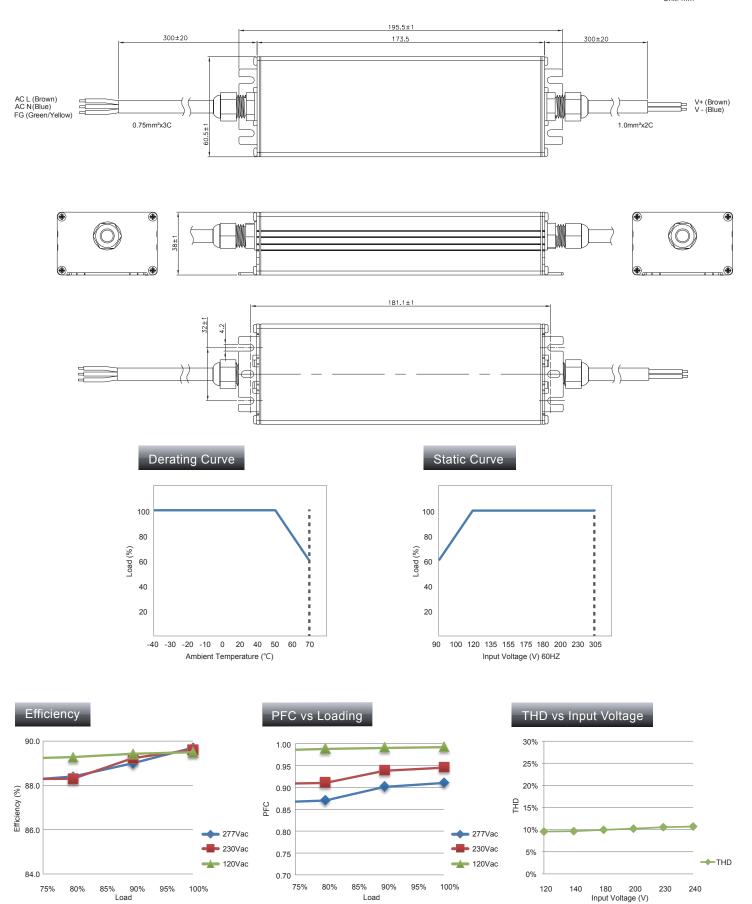
  2. The ripple current must be measured under the condition of AC coupling & 20MHz bandwidth. (Rated input and rated output)
- 3. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- 4. Measured at rated output voltage.
- 6. The power supply is considered 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. FSP60-ZZAE(500)U Safety Pending







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