

SAE Series

80W High Efficiency Dimmable Driver



FSP80-ZZAE(070) ☑G

V Type: IP67 rated with 1-10V Dimming Function

Blank Type: IP67 rated and without 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/4kV(IEC61000-4-5)
- · 1-10V Dimming Function
- · High Reliability & Long Life 50,000hrs
- · Constant Current Design/ Low Ripple Current
- · Class I Power
- · Class 2 power unit / Pass LPS (only FSP80-ZZAE(280)VG)
- · Type HL LED Driver for use in Class I Division 2 hazardous location luminaires
- · All-Round Protections: Short Circuit / Over Power / Over Voltage / Over Temperature
- · Safety: Meet IEC61347-2-13, UL8750 & EMI EN55015

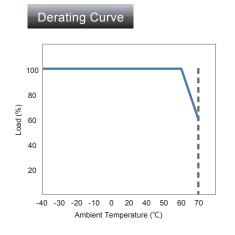
IP67 ⊕ ♥ ♥ C € • SELV TL HL

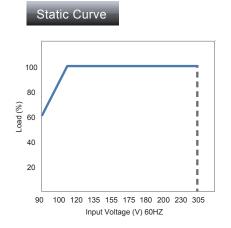
SPECIFIC	CATION					
Model Name		FSP80-ZZAE(070)VG	FSP80-ZZAE(105)VG	FSP80-ZZAE(140)VG	FSP80-ZZAE(210)VG	FSP80-ZZAE(280)VG
Output	Rated Power	80W	80W	80W	80W	80W
	Output Voltage	80-115V	50-76V	40-57V	24-40V	20-28V
	Rated Current	700mA	1050mA	1400mA	2100mA	2800mA
	CURRENT ADJ. RANGE	350-700mA	525-1050mA	700-1400mA	1050-2100mA	1400-2800mA
		Can be adjusted by internal potentiometer for R Type only				
	Output Current Accuracy	±5%	±5%	±5%	±5%	±5%
	Output Ripple Current[2]	±5%	±5%	±5%	±5%	±5%
	Line Regulation	±1%	±1%	±1%	±1%	±1%
	Turn On Delay Time,Rise time	≤1s max ;≤100ms max.				
Input	Input Voltage/ Frequency[3]	90~305Vac/ 47~63Hz (Please refer to Static Curve)				
	Power Factor (typ.)	PF≧0.99/120Vac, PF≧0.95/230Vac, PF≧0.93/277Vac at full load				
	Efficiency (max.)	91%	90%	89%	89%	89%
	Total Harmonic Distortion[4]	THD <20% (Output Loading ≧50% at 120Vac/230Vac, Output Loading ≧75% at 277Vac)				
	AC Current (typ.)	≦0.86A /120Vac ; ≦0.49A /230Vac ; ≦0.48A /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	<200V	<100V	<100V	<63V	<50V
		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, 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: 4KV				
	Withstand Voltage (Hipot)	I/P-O/P 3750Vac, I/P-FG 1800Vac, O/P-FG 1500Vac				
	Isolation Resistance	I/P-O/P, I/P-FG: 100M ohm @ 500Vdc/ 25°C				
	Type TL [7]	-	88/52°C	88/64°C	90/59°C	89/58°C
Others	Life Time [5]	50,000 hours at Tcase of ≤ 75°C				
	MTBF	≥ 200,000 hours, MIL-HDBK-217F(25°C)				
	Dimension (LxWxH)	194 x 60.5 x 38 mm				
	Net Weight / Packing	820g; 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.
- 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 FSP80-ZZAE(070)VG Type TL Pending.

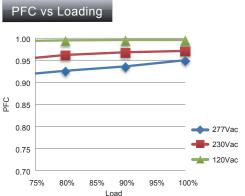


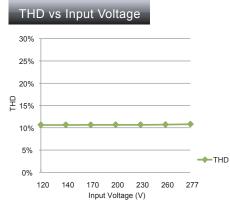






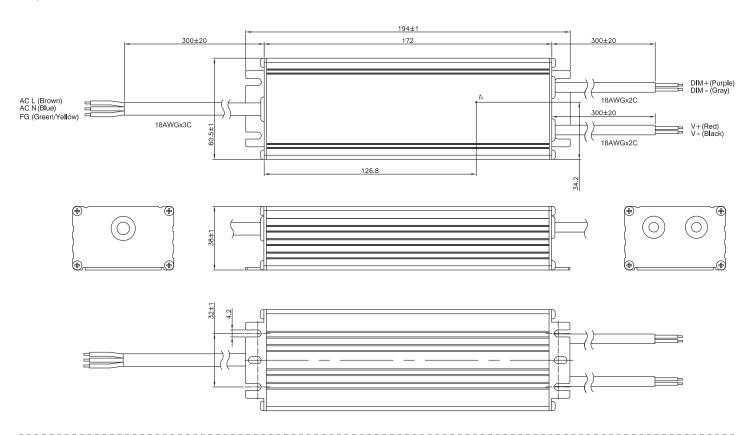






V Type: (FSP80-ZZAE(XXX)VG)

Unit: mm

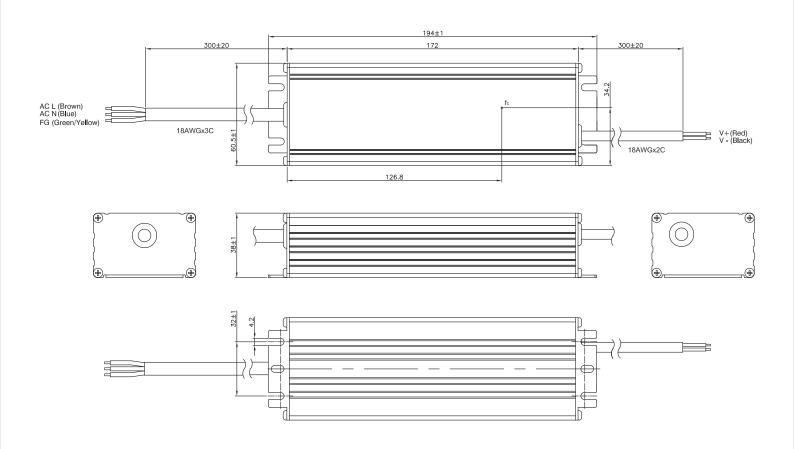


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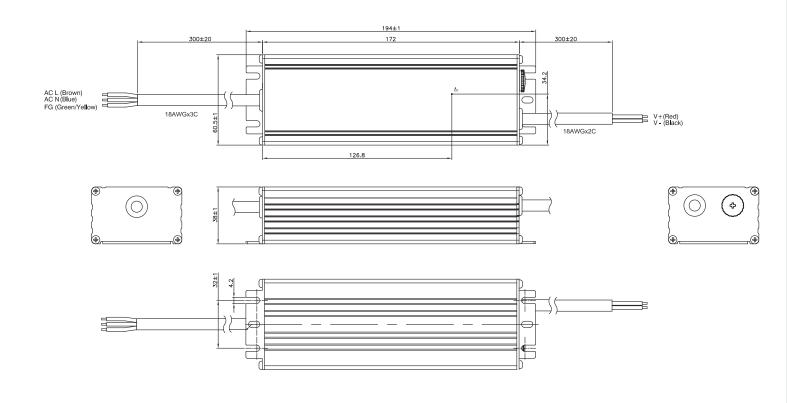


Blank Type: (FSP80-ZZAE(XXX)G)



R Type: (FSP80-ZZAE(XXX)RG)

Unit: mm



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