

100W High Efficiency Dimmable 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: 4kV/6kV(IEC61000-4-5)
- · 1-10V Dimming Function
- · High Reliability & Long Life 50,000hrs
- · Constant Current Design/ Low Ripple Current
- · Isolation Class II Design, No F.G.
- · 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





V Type: IP67 rated with 1-10V Dimming Function Blank Type: IP67 rated and without Dimming Function

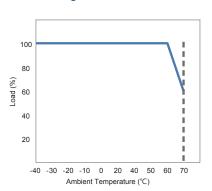
R Type: IP65 rated and output current can be adjusted through internal potentionmeter

SPECIF	ICATIONS							
Model Name		FSP100OUCS142M	FSP100OUCS096M	FSP100OUCS072M	FSP100OUCS048M	FSP100OUCS040M	FSP1000UCS036 M	FSP100OUCS032N
Output	Rated Power	100W	100W	100W	100W	100W	100W	100W
	Output Voltage	106-142V	63-96V	48-72V	32-48V	26-40V	24-36V	21-32V
	Rated Current	700mA	1050mA	1400mA	2100mA	2500mA	2800mA	3150mA
	CURRENT ADJ. RANGE	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA	1050 ~ 2100mA	1250 ~ 2500mA	1400 ~ 2800mA	1575 ~ 3150mA
		Can be adjusted by internal potentiometer for R Type only						
	Output Current Accuracy	±5%	±5%	±5%	±5%	±5%	±5%	±5%
	Output Ripple Current[2]	±5%	±5%	±5%	±5%	±5%	±5%	±5%
	Line Regulation	±0.5%	±0.5%	±0.5%	±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 Static Curve)						
	Power Factor (typ.)	PF≧0.99/120Vac, PF≧0.95/230Vac, PF≧0.91/277Vac at full load						
	Efficiency (max.)	91.5%	91%	90%	90%	90%	90%	90%
	Total Harmonic Distortion[4]	THD <20%						
	AC Current (typ.)	≦1.25A /120Vac ; ≦0.8A /230Vac ; ≦0.8A /277Vac						
	Inrush Current (typ.)	60A at 230Vac, 25°C cold start						
	Leakage Current	≤0.25mA/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, 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	<160V	<100V	<63V	<50V	<50V	<50V
		Protection Type: Shut down and latch off, re-power on to recover						
	Short Circuit Protection	Shut down and latch off, re-power on to recover						
	Over Temperature Protection	Shut down and latch off, 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: 6KV						
	Withstand Voltage (Hipot)	I/P-O/P 3750Vac, I/P-CASE 3000Vac, O/P-CASE 3000Vac						
	Isolation Resistance	I/P-CASE ,O/P-CASE: 100M ohm @ 500Vdc/ 25°C						
	Type TL	81/55°C	85/57°C	85/59°C	80/60°C	88/58°C	88/62°C	86/57°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	840g; 20 pcs / box						

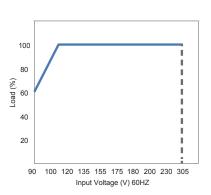
- All data NOT specially mentioned are measured at 230Vac/ 50Hz input, full load and 25°C of ambient temperature.
- 2. The ripple current must be measured under the condition of AC coupling & 20MHz bandwidth. (Rated input and rated output) 3. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- 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 thecomplete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.



Derating Curve



Static Curve



230Vac

<u></u> 120Vac

100%

92.0 90.0 90.0 88.0 86.0 2777Vac 230Vac 120Vac

90%

Load

100%

1.00 0.95 0.90 0.85 0.80 0.75 0.70 0.65

90%

Load

PFC vs Loading

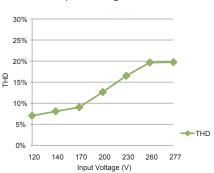
0.60

0.50

75%

80%

THD vs Input Voltage



V Type:

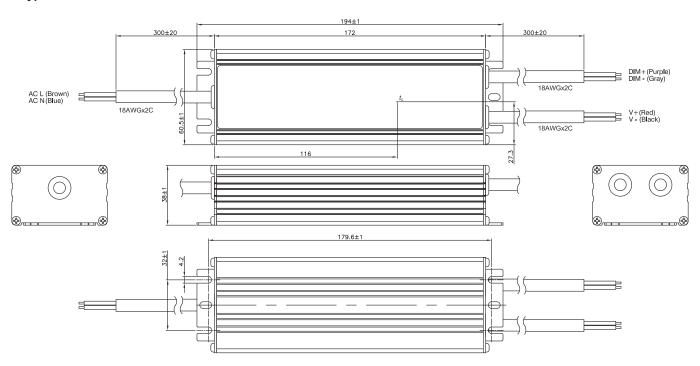
84.0

75%

80%

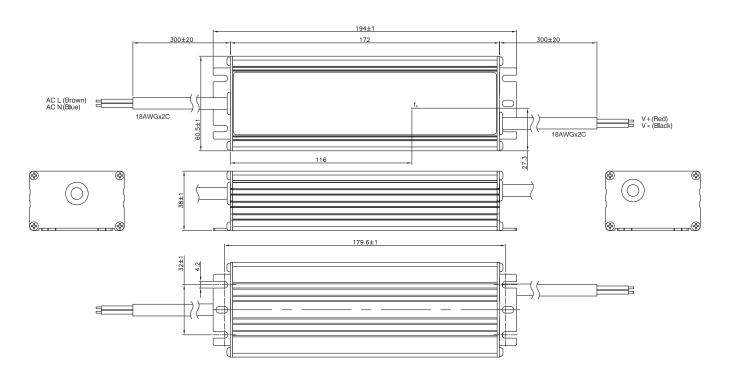
85%







Blank Type: Unit mm



R Type:

