

SAE Series

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



SAE-100-700D

D 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

• Pulse level ≦5%							Type
IP67 € ▼	110	CE	EHL AB29	c 51 (*)	SELV	TL	HL

SPECIFIC	ATION										
Model Name		SAE-100-700-D	SAE-100-1050-D	SAE-100-1400-D	SAE-100-2100-D	SAE-100-2500-D	SAE-100-2800-D	SAE-100-3150-D			
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 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%			
Input	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		<150V	<105V	<80V	<55V	<48V	<45V	<36V			
	Over Voltage Protection	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, 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									
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 38 mm									
			:								

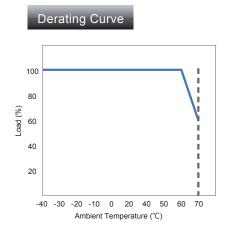
- 1. All data NOT specially mentioned are measured at 230Vac/ 50Hz input, full load and 25°C of ambient temperature.
 2. The ripple current must be measured under the condition of AC coupling & 20MHz bandwidth. (Rated input and rated output)
 3. Derating may be needed under low input voltages. Please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

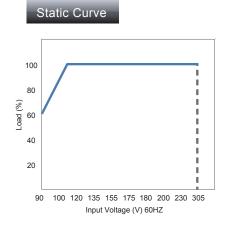
- 5. The input voltage information on the label should be marked ±10% less than the original input voltage, to conform with safety regulations.
 6. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by thecomplete installation, the final luminary manufacturers must re-qualify EMC Directive on the complete installation again.

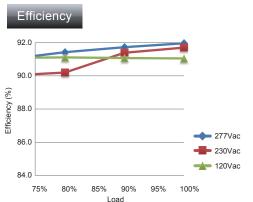


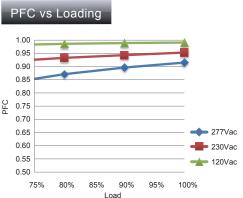
TEL/ FAX: +7(499)730 44 10

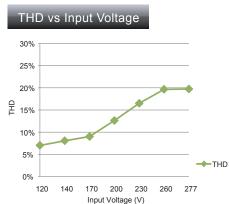






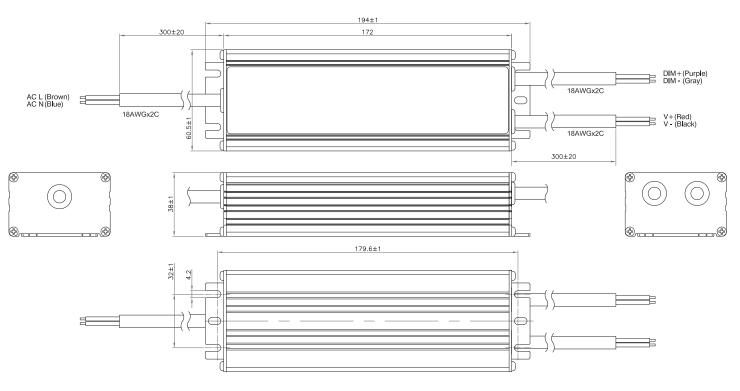






D Type(Dimming):SAE-100-XXX-D

Unit: mm

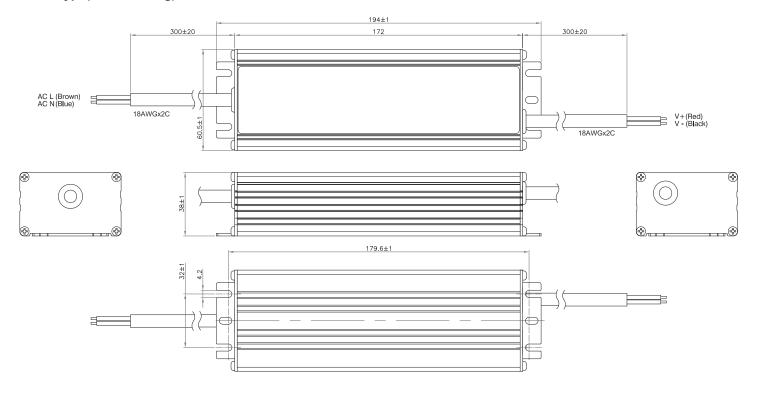


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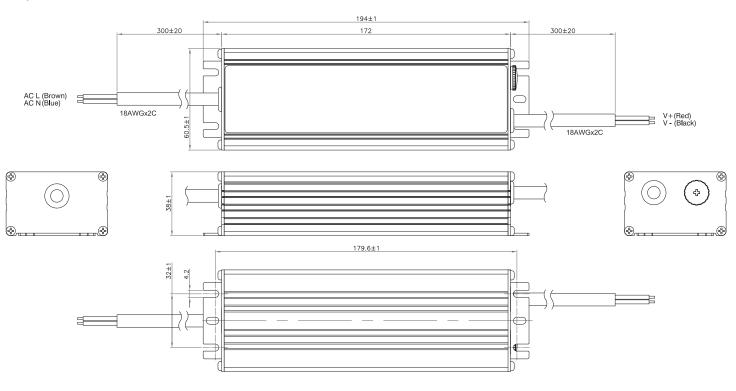


Blank Type(Non-dimming): SAE-100-XXX

Unit: mm



R Type(with VR): SAE-100-XXX-R



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