



TAURAS™

LED Drivers

**SKU****Model #**

154318 VD-24150D0243

154320 VD-12200D0710

Product Features

- Constant voltage design
- Universal AC input / Full range
- Small dimension, High efficiency, High reliability, Long lifetime
- IP67 design for outdoor installation
- Working Temperature: -25°C~+50°C
- Protections: Overload, Over voltage, Short-circuit, etc.
- Typical efficiency: 91%
- 100% full load burn-in test

SKU	WATT	WORKING TEMP	ENVIRONMENT	MAX. OUTPUT CURRENT	INPUT VOLTAGE	OUTPUT VOLTAGE	EFFICIENCY	IP RATING	CERTIFICATIONS
154318	150W	-20°C~40°C	Outdoor	6,25A	100-240V	24V DC	89,5%	IP67	UL
154320	200W	-20°C~40°C	Outdoor	16.67A	100-240V	12V DC	89,5%	IP67	UL

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SKU: 154318

Specifications

Model #		VD-24150D0243	VD-12200D0710
Output	DC Voltage	24V	12V
	Rated Current	6.25A	16.67A
	Current Range	0~6.25A	0-16.67A
	Rated Power	150W	200W
	Ripple And Noise(Max.) Note4	240mVp-p	120mVp-p
	Voltage Tolerance Note3	±2.0%	±4%
	Line Regulation	±0.5%	±1%
	Load Regulation	±1.0%	±2%
	Set Up Time Note 6	1	2
Input	Holding Time (Typ.)	2000ms, 50ms(at full load) 110Vac/230Vac	
	Output Groups	15ms(at full load) 110Vac / 230Vac	
	Voltage Range Note 2	90~264Vac or 127~374Vdc	
	Frequency Range	47~63Hz	
	Power Factor (Typ.)	PF≥0.50/110V(at full load) PF≥0.45/230V(at full load)	
	Efficiency (Typ.)	90%	88%
	Ac Current	3.1A/110Vac 1.6A/230Vac	
	Inrush Current (Typ.)	Cold start: 60A/230Vac	
	Leakage Current	<0.75mA/240Vac	
Protection	Over Load	104%-120% of the rated output power	
		Protection mode: constant current limiting, recovers automatically after the load reduced.	
	Short Circuit	Protection type: Hiccup mode, recovers automatically after fault conditions removed	
	Over Voltage	24.5-35.0V	13.0-18.0V
		Protection type: Hiccup mode, recovers automatically after fault conditions removed	
	Over Temperature	Ta:55°C ~65°C Protection type: Shut down O/P voltage, recovers automatically after temperature goes down.	
Environment	Working Temperature	-25°C~+50°C	
	Working Humidity	10%~90%RH, non-condensing	
	Storage Temp. & Humidity	-25°C~+75°C (5%~95%RH)	
	Temp. Coefficient	±0.05%/°C (0~50°C)	
	Vibration	10-300Hz, 1G 10min./cycle, period for 60min. each along X, Y, Z axes	



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Safe & EMC	Safety Standards	Compliance to UL8750, UL60950, IP67 waterproof rating.
	Withstand Voltage	I/P-O/P: 3.75KVAC I/P-FG: 1.875KVAC O/P-FG: 0.5KVAC
	Insulation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100Mohms/500Vdc 25°C /70%RH
	EMC Emission	/
	EMC Immunity	/
Other	MTBF	≥200Khrs, MIL-HDBK-217F(25°C)

Note

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Derating may be needed under low input voltages. Please check the static characteristics for more details.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. Ripple & noise are measured at 20MHZ of bandwidth by using twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
5. 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-confirm EMC Directive on the complete installation.
6. The start time was tested under the situation of cold star, continuous switching on/off may raise the start time

Packaging

SKU	Box Dimension	Qty	Net Weight	Gross Weight
154318	12.59" x 11.61" x 7.67"	10 Pc/Box	1.54LBS	1.69LBS
154320	13.38" x 12" x 11.49"	8 Pcs/Box	15.14LBS	19.84LBS

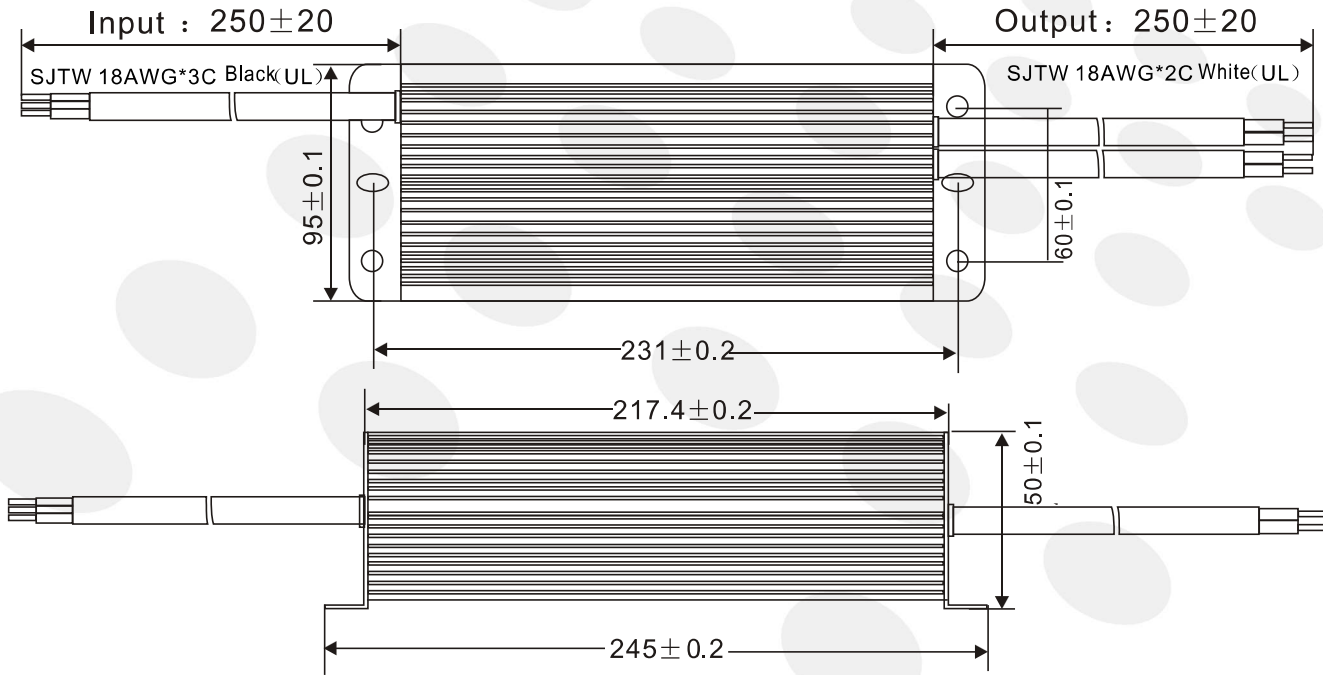
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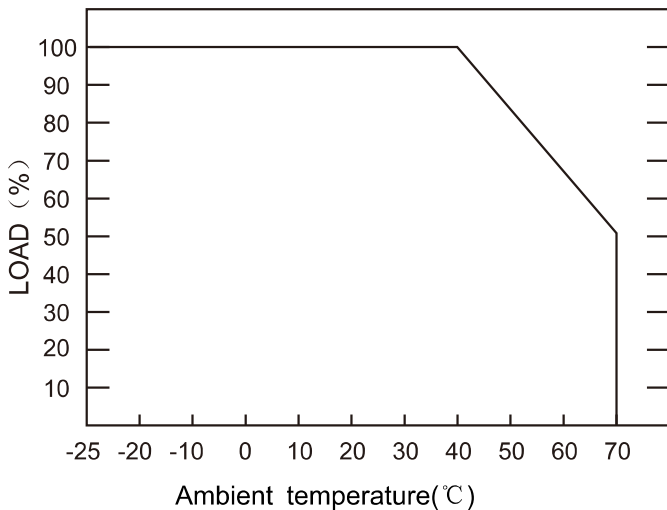
Mechanical Specification

■ Mechanical Specification

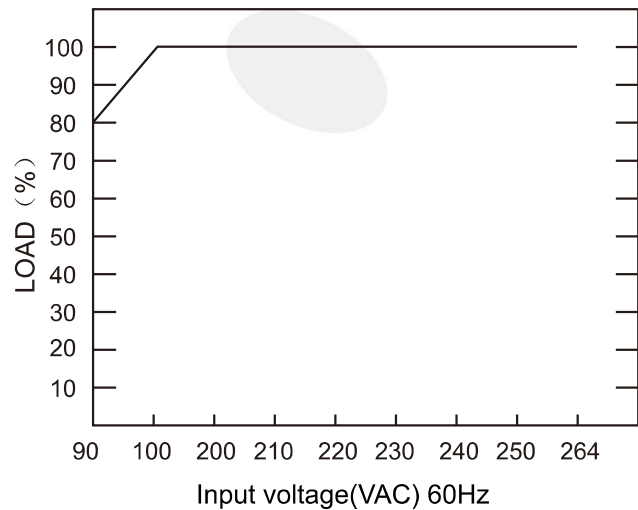
Case No. D0710 Unit: mm



■ Derating Curve



■ Static Characteristics





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SKU: 154320

Specifications

Model #		
Output	DC Voltage	
	Rated Current	
	Current Range	
	Rated Power	
	Ripple And Noise(Max.) Note4	
	Voltage Tolerance Note3	
	Line Regulation	
	Load Regulation	
	Set Up Time Note 6	
Input	Holding Time (Typ.)	2000ms, 50ms(at full load) 110Vac/230Vac
	Output Groups	15ms(at full load) 110Vac / 230Vac
	Voltage Range Note 2	90~264Vac or 127~374Vdc
	Frequency Range	47~63Hz
	Power Factor (Typ.)	PF≥0.50/110V(at full load) PF≥0.45/230V(at full load)
	Efficiency (Typ.)	88%
	Ac Current	3.1A/110Vac 1.6A/230Vac
	Inrush Current (Typ.)	Cold start: 60A/230Vac
	Leakage Current	<0.75mA/240Vac
Protection	Over Load	104%-120% of the rated output power Protection mode: constant current limiting, recovers automatically after the load reduced.
	Short Circuit	Protection type: Hiccup mode, recovers automatically after fault conditions removed
	Over Voltage	13.0-18.0V Protection type: Hiccup mode, recovers automatically after fault conditions removed
	Over Temperature	Ta:55°C ~65°C Protection type: Shut down O/P voltage, recovers automatically after temperature goes down.
Environment	Working Temperature	-25°C~+50°C
	Working Humidity	10%~90%RH, non-condensing
	Storage Temp. & Humidity	-25°C~+75°C (5%~95%RH)
	Temp. Coefficient	±0.05%/°C (0~50°C)
	Vibration	10-300Hz, 1G 10min./cycle, period for 60min. each along X, Y, Z axes