



## 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: -20 oC~+40 oC
- Protections: Overload, Over voltage, Short-circuit, etc.
- Typical efficiency: 89.5%
- C certified, RoHS/REACH compliant
- 100% full load burn-in test

SKU #	Model #	Watt	Input Voltage	Output Voltage	Max. Output Current	Environment	IP	Certifications
1540316	VD-12060A0696	60-12W	100-240Vac	12V DC	5A	Outdoor	IP67	UL
1540321	VD-24060A0696	60-24W	100-240Vac	24V DC	2.5A	Outdoor	IP67	UL

# LED DRIVERS



Specifications			
Model #		VD-12060A0696	VD-24060A0696
Output	DC Voltage	12V	24V
	Rated current	5A	2.5A
	Current range	0-5A	0-2.5A
	Wattage	60W	60W
	Ripple and Noise(max.) Note4	120mVp-p	240mVp-p
	Voltage tolerance Note3	±4%	±2%
	Line regulation	±1%	±0.5%
	Load regulation	±2%	±1%
	Output groups	1	1
	Set up time Note6	2000ms, 50ms(at full load) 100Vac/230Vac	
	Holding time(Typ.)	15ms(at full load) 100Vac/230Vac	
Input	Voltage range Note 2	90~264Vac or 127~374Vdc	
	Frequency range	47~63Hz	
	Power factor(Typ.)	PF≥0.5/100V(at full load) PF≥0.45/230V(at full load)	
	Efficiency(Typ.)	88.5%	89.5%
	AC current	1.33A/100Vac 0.65A/230Vac	
	Inrush current(Typ.)	Cold start: 50A/230Vac	
	Leakage current	<0.75mA/240Vac	
Protection	Over load	110%-135% of the rated output power. Protection mode:Hiccup mode, recovers automatically after the load reduced.	
	Short circuit	Protection type: Hiccup mode, recovers automatically after fault conditions removed	
	Over voltage	12.5-18.0V	24.5-35.0V
Environment	Over temperature	100°C±5°C (RTH) Protection mode: Shut down O/P voltage, recovers automatically after temperature goes down.	
	Working temperature	-20°C~+40°C	
	Working humidity	10%~90%RH, non-condensing	
	Storage temp. and humidity	-25oC~+75oC, 5%~95%RH	
	Temp. coefficient	±0.05%/°C (0~40°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, EN61347-1, EN61347-2-13, Ip67 waterproof rating.
	Withstand voltage	I/P-O/P: 3.75KVAC
	Insolation resistance	I/P-O/P, 100Mohms/500Vdc 25°C/70%RH
	EMC Emission	/
	EMC Immunity	/
Others	MTBF	≥200Khrs, MIL-HDBK-217F(25°C)
	Product Dimension	6.45" X 1.69" X 1.33"
	Product Packaging	0.92LBS/PCS, (30PCS, 27.77LBS)

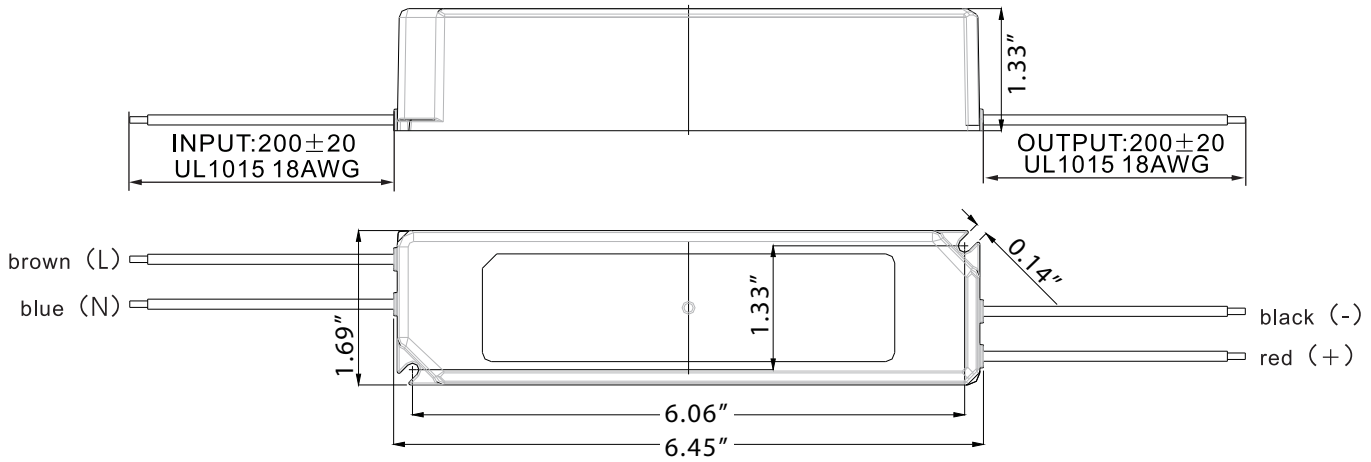
## Note

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.

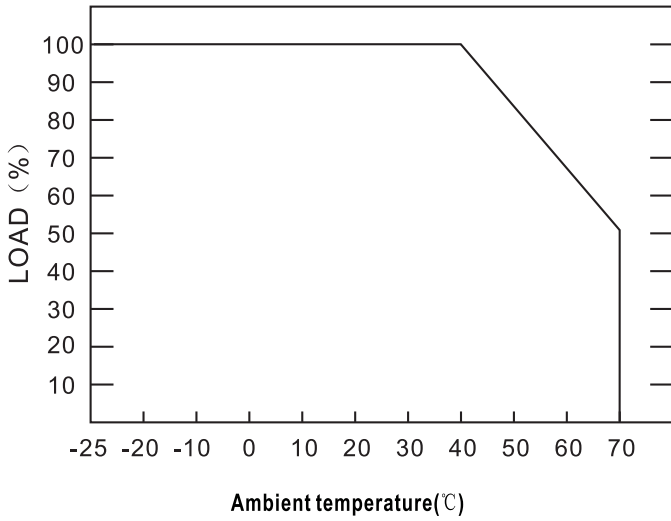
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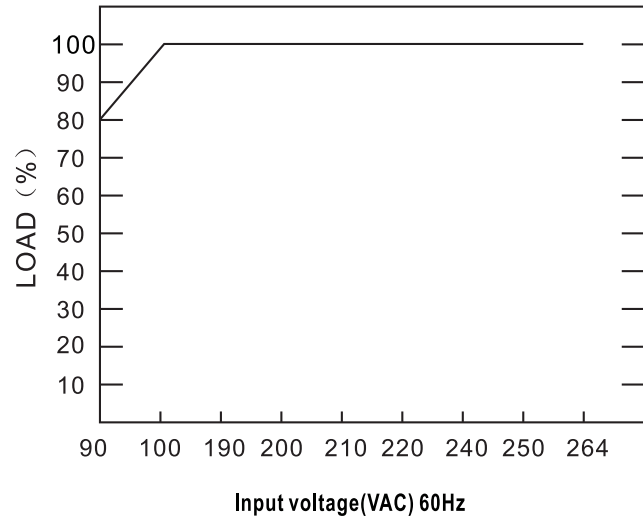
## Mechanical Specification



■ Derating Curve



■ Static Characteristics



## Package

SKU #	Carton (Inch)	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
1540316	14.76 x 13.38 x 6.88	40PC		34.83lbs
1540321	14.76 x 13.38 x 6.88	40PC		34.83lbs

## Warranty

3 Years Warranty