



◆Feature

- .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: Over temperature, Overload, Short-circuit, etc.
- .Typical efficiency: 91%
- .UL\IP67 certified, RoHS compliant
- .100% full load burn-in test.

**SPECIFICATION**

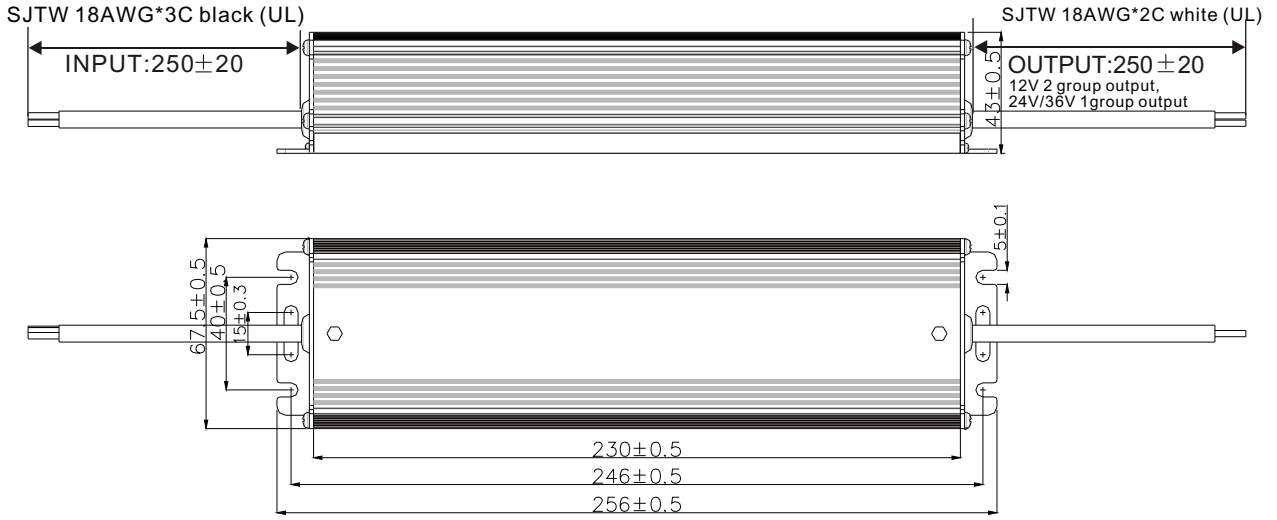
Model Number		VD-12150D0243	VD-24150D0243	VD-36150D0243			
Output	DC Voltage	12V	24V	36V			
	Rated current	12.5A	6.25A	4.17A			
	Current range	0~12.5A	0~6.25A	0~4.17A			
	Rated power	150W	150W	150W			
	Ripple and Noise(max.) Note4	120mVp-p	240mVp-p	360mVp-p			
	Voltage tolerance Note3	±4.0%	±2.0%	±2.0%			
	Line regulation	±1.0%	±0.5%	±0.5%			
	Load regulation	±2.0%	±1.0%	±1.0%			
	Output groups	2	1	1			
	Set up time Note6	2000ms, 50ms(at full load) 110Vac/230Vac					
Holding time(Typ.)	15ms(at full load) 110Vac/230Vac						
Input	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%	90%	91%			
	AC current	3.25A/110Vac 1.72A/230Vac					
	Inrush current(Typ.)	Cold start: 60A/230Vac					
	Leakage current	<0.75mA/120Vac					
Protection	Over load	104%-125% 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	24.5-35.0V	36.8-54.0V			
	Over temperature	Ta:55~65°C Protection mode: Power off the output voltage, self-recovery when the temperature reduced					
Environment	Working temperature	-25°C~+50°C					
	Working humidity	10%~90%RH, non-condensing					
	Storage temp. and humidity	-25°C~+75°C, 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					
Safe and 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					
	Insolation resistance	I/P-O/P, I/P-FG, O/P-FG: 100Mohms/500Vdc 25°C/70%RH					
	EMC Emission	/					
	EMC Immunity	/					
Others	MTBF	≥200Khrs, MIL-HDBK-217F(25°C)					
	Dimension	256X67.5X44.8mm(L*W*H)					
	Packing	1.3Kg/PCS, 10PCS/13Kg/box, (320X295X195mm)					

**NOTE**

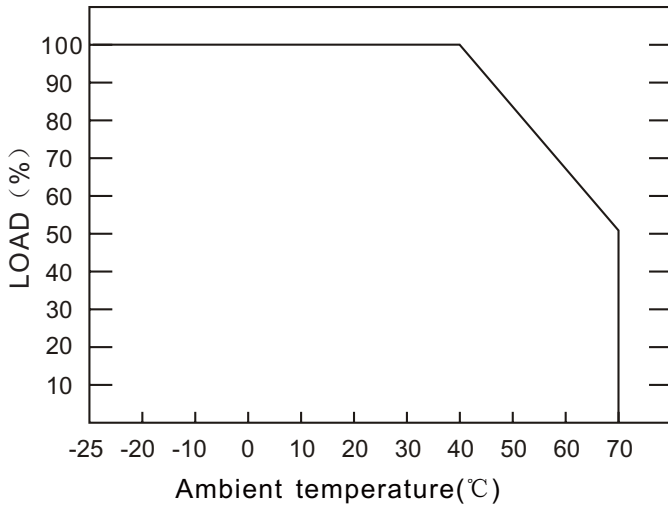
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Derating may be needed under low input voltages. Please check the static characteristics for more details.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
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.

■ Mechanical Specification

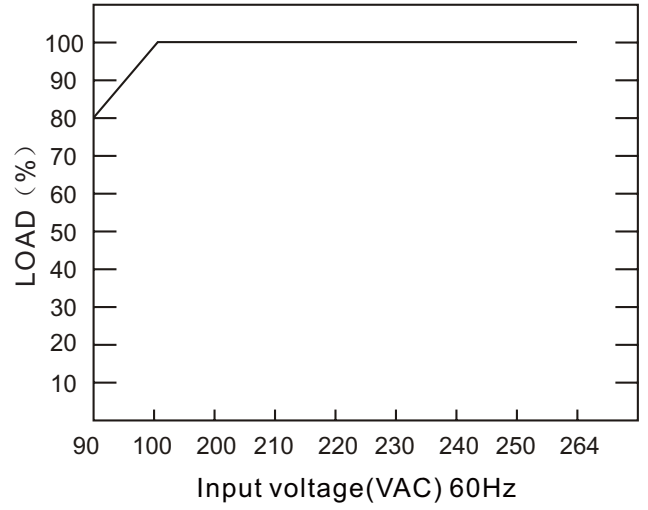
Case No. D0243 Unit: mm



■ Derating Curve



■ Output the Derating Curve



Designed by		Standardization		D0243 type	Version: 2.0
Corrected by		Approved by		SHENZHEN STARWELL TECHNOLOGY CO., LTD	
Checked by					