

◆Feature



- .Constant voltage design
- .Universal AC input/Full range voltage
- .Small dimension, High efficiency, High reliability, Long lifetime
- .Ip66 design for outdoor installation
- .Working temperature: -20°C~+50°C
- .Protections: Overload, Over voltage, Short-circuit, etc.
- .Typical efficiency: 85%
- .CE, UL, cUL, IP67, RoHS compliant.
- .100% full load burn-in test.

**SPECIFICATION**

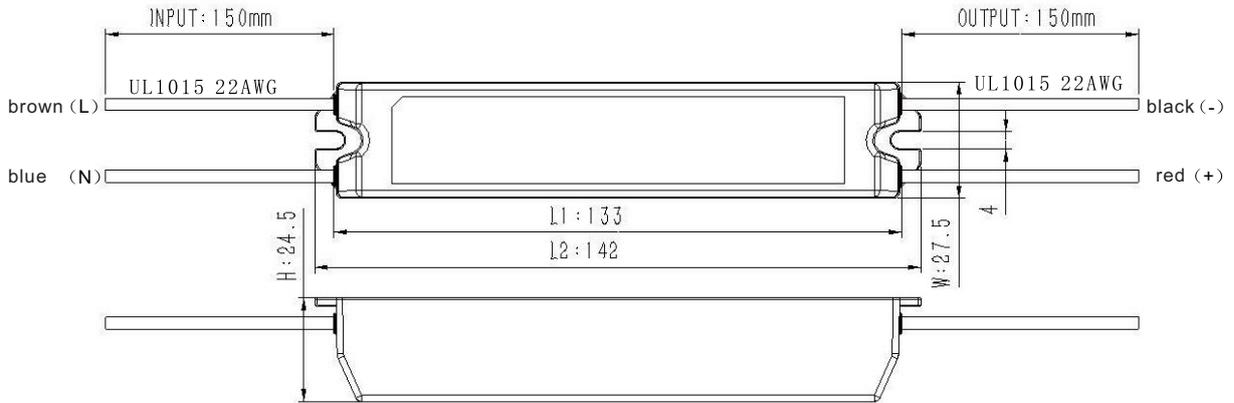
Model Number		VD-12015A0281	VD-24015A0281		
Output	DC Voltage	12V	24V		
	Rated current	1.25A	0.625A		
	Current range	0-1.25A	0-0.625A		
	Rated power	15W	15W		
	Ripple and Noise(max.) Note4	120mVp-p	240mVp-p		
	Voltage tolerance Note3	±4%	±2%		
	Line regulation	±1%	±0.5%		
	Load regulation	±1.5%	±1%		
	Output groups	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≥0.5/110V(at full load) PF≥0.45/230V(at full load)			
	Efficiency(Typ.)	83.5%	84.5%		
	AC current	0.5A/110Vac 0.24A/230Vac			
	Inrush current(Typ.)	Cold start: 50A/230Vac			
Leakage current	<0.5mA/240Vac				
Protection	Over load	110%-150% 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	13-18V	24.5-35V		
	Over temperature	100°C±10°C(RTH2) Protection mode: Power off the output voltage, self-recovery when the temperature reduced			
Environment	Working temperature	-20°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 EN61347-1, EN61347-2-13, Ip66 waterproof rating.			
	Withstand voltage	I/P-O/P: 3.75KVac			
	Insulation resistance	I/P-O/P,100Mohms/500Vdc 25°C/70%RH			
	EMC Emission	/			
	EMC Immunity	/			
Others	MTBF	≥200Khrs, MIL-HDBK-217F(25°C)			
	Dimension	142X27.5X24.5mm(L*W*H)			
	Packing	0.2Kg/PCS, 50PCS/10Kg/box: (360X225X170mm)			

**NOTE**

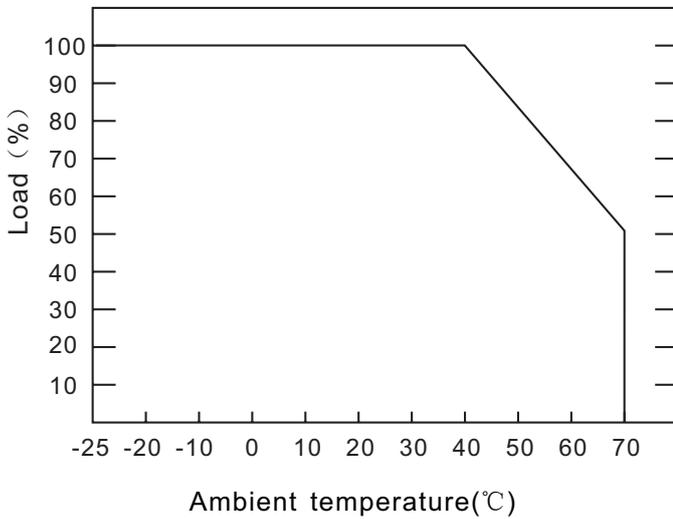
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Derating may be needed under low input voltages. Please check the static characteristics for more details.
3. Tolerance: includes set up tolerance, line regulation and load regulation.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

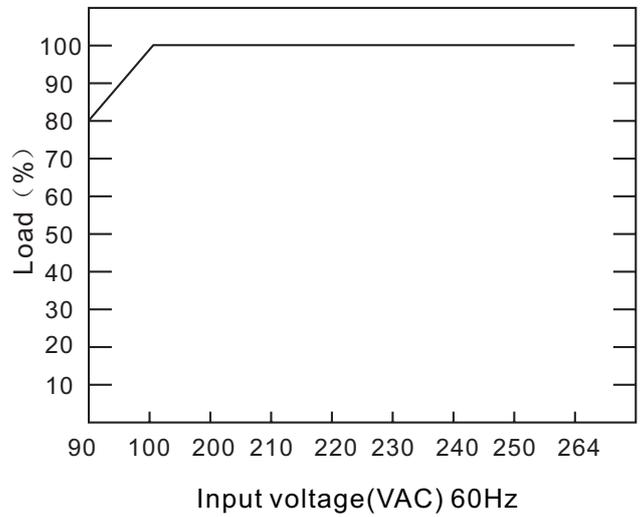
Case No. A0281 Unit: mm



■ Temperature Derating Curve



■ Input Derating Curve



Designed by		Standardization		A0281 Spec	Version: 2.0
Corrected by		Approved by		SHENZHEN STARWELL TECHNOLOGY CO., LTD	
Checked by					