- **Features**
  - ✓ Full sealed aluminum shell deign
  - ✓ IP67 waterproof grade
  - ✓ -30~+70℃ Working temperature （refer to derating curve ）
  - ✓ Short circuit/Overload/Over temperature protection
  - ✓ 100% full load high temperature burn in test
  - ✓ 2 years quality warranty

- **Application：** Outdoor lighting, construction lighting, decorative lighting, signage lighting, flood light, high pole light, stadium light , streetlight and etc .

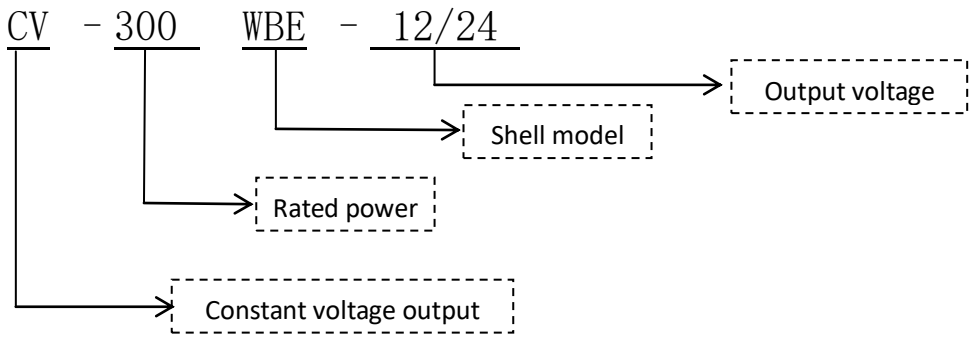
- **Standard**

EN61547\EN61000-4-2,3,4,5,6,8,11\ GB17625.1\EN61000-3-2\EN61000-3-3\ EN55015\GB17743\ GB19150.1\14/EN61347-1, -2-13\EN62384\UL8750

- **Product description**

CV-300WBE serial product is one model 300W IP67 waterproof power supply, Input voltage range ：180～264VAC, Output voltage 12V ,24V etc, It can applicable for outdoor lighting , construction lighting, decorative lighting, signage lighting, flood light, high pole light, stadium light, street light and LED area. It adopt aluminum waterproof shell design, super efficiency, compact shell, good heat exchange guarantee this serial product can long time stable working.

- **Product encoding**

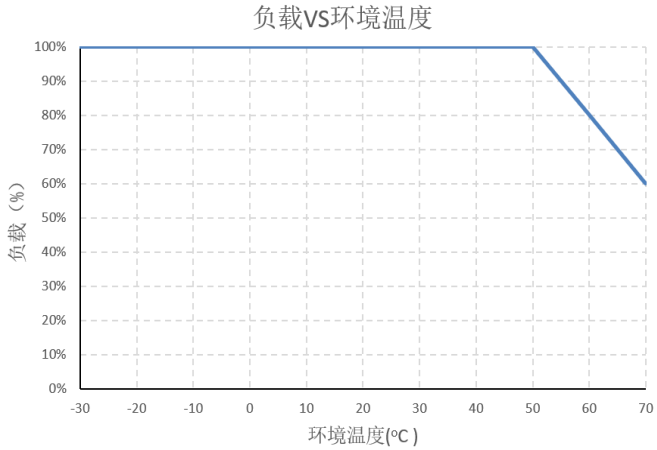


- Electronic parameter

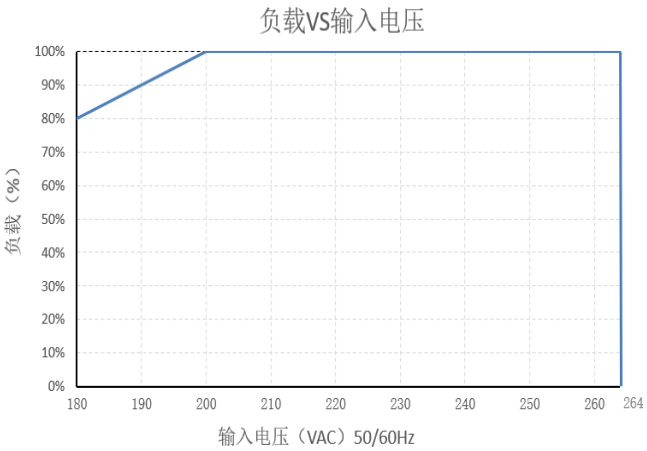
Model		CV-300WBE-12	CV-300WBE-24
Input	Voltage range	180～264VAC	
	AC current	230VAC/3.3A	
	Efficiency	≥90%	≥92%
	Frequency range	47～63HZ	
	Leakage current	<1mA/240VAC	
	Inrush current	Cold start 70A/230VAC	
Output	DC voltage	12V	24V
	Rated current	25A	12.5A
	Power	300W	300W
	Voltage adjustment range	/	/
	Ripple & noise	200mVp-p	300mVp-p
	Set up and rise time	2500ms, 50ms/ (230VAC) load 100%	
	Keep time	20ms / (230VAC) load 100%	
	Line regulation	±0.5%	±0.5%
	Load regulation	±2.0%	±2.0%
	Voltage tolerance	±3.0%	±3.0%
EMC	EMC emission	Design refer to :EN61547;EN61000-4-2,3,4,5,6,8,11;	
	Harmonic current	Design refer to :GB17625.1;EN61000-3-2, EN61000-3-3	
	EMC Index	Design refer to :EN55015, GB17743	
Safety	Safety standard	Design refer to :GB19150.1,14/EN61347-1, -2-13/EN62384 /UL8750/IP67	
	Withstand voltage	Input—Output I/P-O/P:3KVac/10mA; Input---Shell I/P-CASE:1.5KVac/10mA; Output ---Shell O/P-CASE:0.5KVAC/10mA Each item test time :1min	
	Isolation resistance	I/P-O/P:100M ohms; I/P-Case:100M ohms; O/P-Case:100M ohms	
Protection	Over voltage protection	/	
	Over load protection	105%～175% rated load, recover automatically after overload removed	
	Over temperature protection	Full load , Environment 60℃±5℃	
	Short circuit	protection after output end short circuit, remove short circuit automatically recover.	
Environment	Working temperature and humidity	-30~70℃ 20%~95%RH Non condensing (Details refer to derating curve)	
	Storage temperature and humidity	-40℃~85℃; 10%~95%RH non condensing	
	Vibration	Frequency range 10 ~ 500Hz, Acceleration 2G, each sweep frequency cycle10min., each along X,Y, Z axes 6 sweep frequency cycle	
	Shock	Acceleration 20G, duration 11mS, 3 shocks along X,Y, Z axes.	

	Altitude height	2000mtrs（Above 2000m，rise 100m，Environment temperature decrease 0.6℃）
Reliability	MTBF	Under 25℃:100000Hrs, MIL-217 Method
Other	Dimension	219*74*46 mm（L*W*H）
	Packing	1.2Kg/pc,16pcs/carton，19.4KG/carton
	Way of cooling	☑ self-cooling ☐ air cooling
	Extension	☐ conformal coating ☐ Terminal with cover ☐ low temp start（-40℃） ☐ Other
Remark	* In order prolong lifetime , it is recommend to leave 30% more allowance when configuration load. For example: equipment need 100W, the power supply should not less than 130W. * The way of test switching power supply ripple : Use 20MHz oscilloscope in power output terminal test, oscilloscope probe wire length is not more than 12mm, and input parallel 47uF electrolytic capacitors and 0.1uF high frequency capacitance probe. * All electrical performance test under 25℃environment . *This product when full load use need increase area 400*400*3mm aluminum plate auxiliary heat exchange * Power is the part of equipment system component, all EMC test need assembly sample on the metal plate, power need connect end equipment to process EMC confirm.	

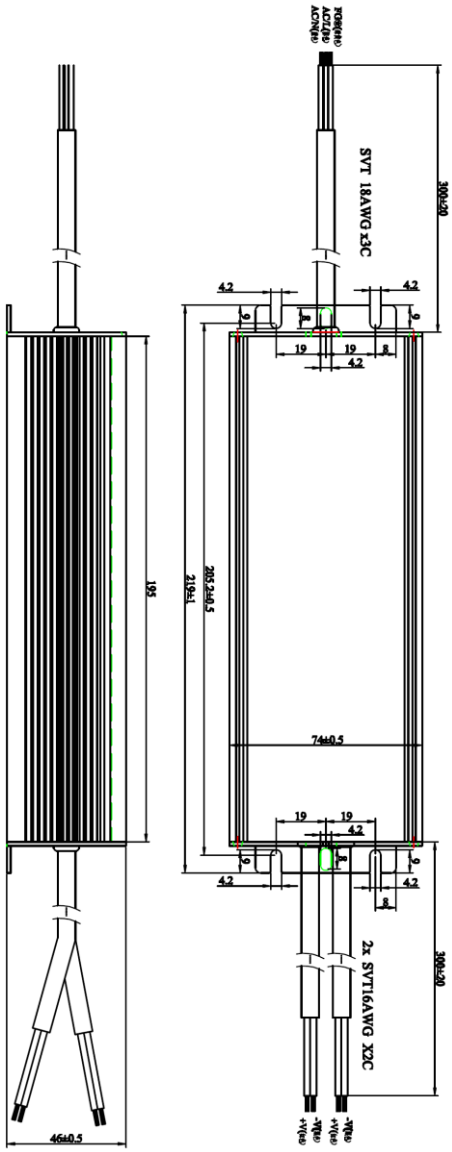
● Output load and temperature curve



● Static characteristics curve



● Mechanical dimension



● Product installation and explanation

1. When installing, please install according to instruction of installation
2. Please check and proofread each connecting terminal, make sure input and output, AC and DC, positive and negative, voltage value and current value are correct to avoid damage power supply and user equipment before finish installation and connect electricity.
3. Please use multimeter measure live wire, null wire and ground wire whether short circuit, when connect electricity please no load set up.
4. In order not avoid power supply reliability , Please do not exceed the power supply nominal value when using, if need to change power supply output parameter, please kindly contact with our technical department to make sure use effective and reliability.
5. To ensure safety and interference, please make sure ground end grounding(grounding wire >AWG18#).
6. If the power supply fails, please do not repair it without authorization, please contact our service department ASAP, customer service line: 86-519-85215050

● Transport and storage

1. This package applicable for truck, ship, air plane, train and etc, it should be rainproof and handled civilly during transporting.
2. Storage: The product should put into packing carton before use, storage environment temperature and humidity should meet product requirement, warehouse should not have corrosive air or product and no strong mechanical vibrating, shock and strong magnetic field. Packing carton should at least leave 20cm higher from the ground, do not allow water immersion. If storage time more than one year, it should be re-examined by professional people before use.