- **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 .
- **Certificate:**

CE

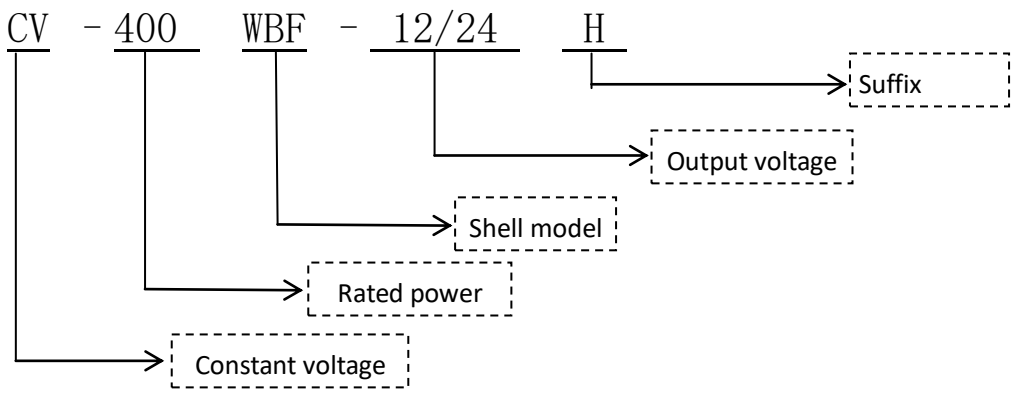
- **Standard:**

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-400WBF series product is a 400W IP67 waterproof power supply with input voltage range of 176-264VAC and output voltage of 12V, 24V, etc. it can be applied to LED fields such as exterior lighting, architectural lighting, decorative lighting, logo lighting, industrial and mining lights, high pole lights, stadium lights and street lights. It adopts aluminum shell waterproof design, ultra-high efficiency, compact shell and good heat dissipation, which ensures the long-term and stable work of this series of products.

- **Named:**

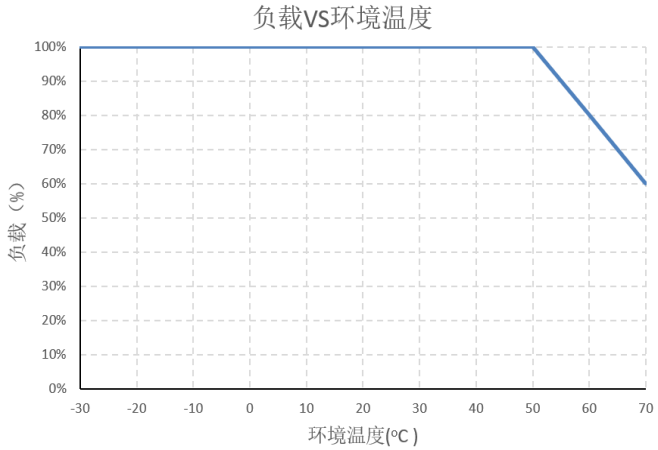


- Electronic parameter

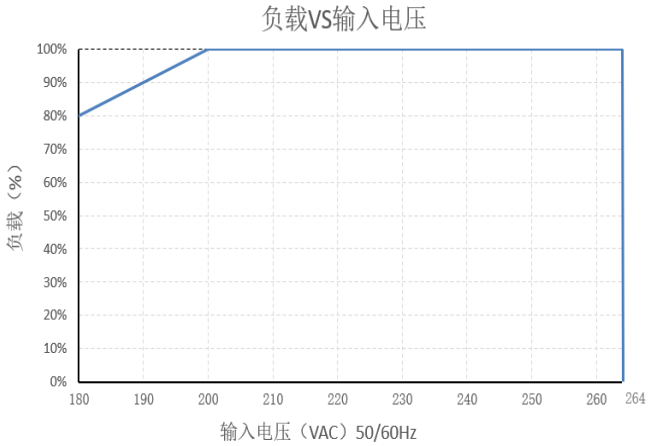
Model		CV-400WBF-12H	CV-400WBF-24H
Input	Voltage range	180～264VAC	
	AC current	230VAC/3.58A	
	Efficiency	≥91%	≥92.5%
	Frequency range	47～63HZ	
	Leakage current	<1mA/240VAC	
	Inrush current	Cold start 90A/230VAC	
Output	DC voltage	12V	24V
	Rated current	33.3A	16.7A
	Power	399.6W	400.8W
	Voltage adjustment range	/	/
	Ripple & noise	200mVp-p	300mVp-p
	Set up and rise time	1500ms, 30ms/ (230VAC) full load	
	Keep time	10ms / (230VAC) full load	
	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 class B	
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	Voltage limit range 115%～135% of rated output voltage	
	Over load protection	105%～175% rated load, recover automatically after overload removed	
	Over temperature protection	/	
	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	238*74*46 mm（L*W*H）
	Packing	1.3Kg/pc,14pc/ctn，19KG/ctn
	Way of cooling	☑ self-cooling ☐ air cooling
	Extension	☐ PCB double side conformal coating ☐ Terminal with cover ☐ low temp start（-40℃） ☐ Other
Note	*In order to extend the service life, it is recommended to leave 30% more allowance when loading. For example, if the equipment needs 100W power, please choose the power supply over 130W. *Ripple&noise are measured at 20MHz of bandwidth by using a 12’’ twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. *All parameters NOT specially mentioned are measured at 230VAC input,rated load and 25℃ of ambient temperature。 *the auxiliary heat dissipation of aluminum plate with an area of 400 * 400 * 3mm must be used when full load working. *The power supply is considered a component which will be installed into a final equipment.The final equipment must be re-confirmed that it still meets EMC directives.All our EMC tests are carried out by mounting samples on metal plates.	

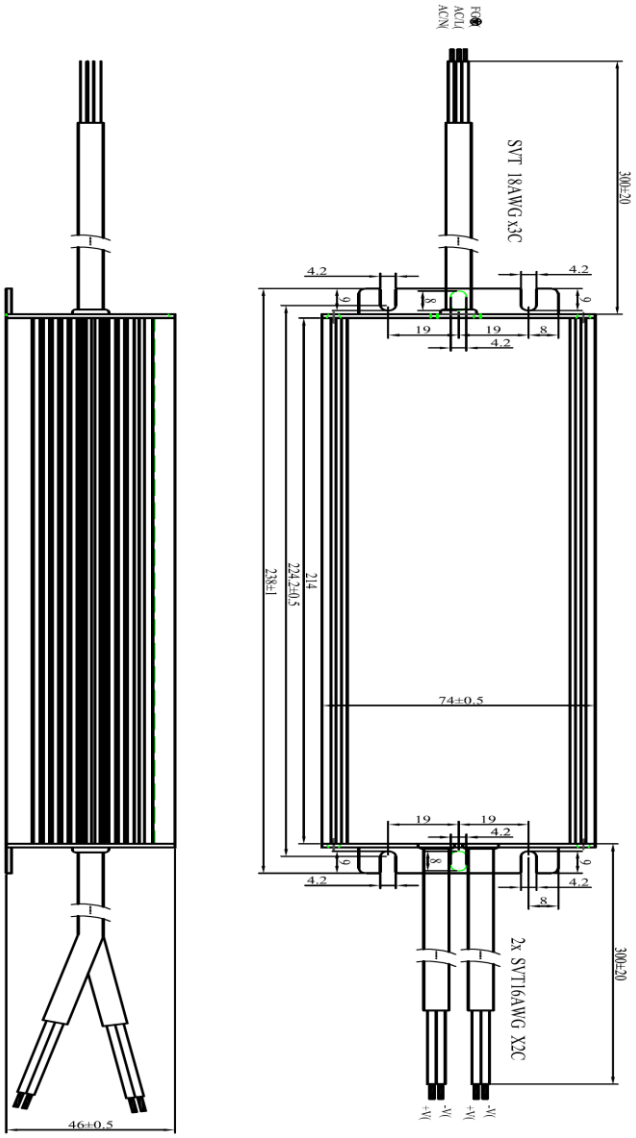
- Load and temperature curve



- Static characteristic 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.