



● **Product Characteristics**

- ✓ Full sealed aluminum shell design
- ✓ IP67 waterproof grade
- ✓ working temperature -30~+70°C

(Please refer derating curve for details)

- ✓ Protections: Short circuit/Over load /Over voltage
- ✓ 100%full load high temperature burn in test
- ✓ 2 years warranty

- **Applications:** Outdoor lighting, architectural lighting, decorative lighting, Sign lighting, Led industry light, High -pole lamp, Stadium lamp , street lamp and etc.

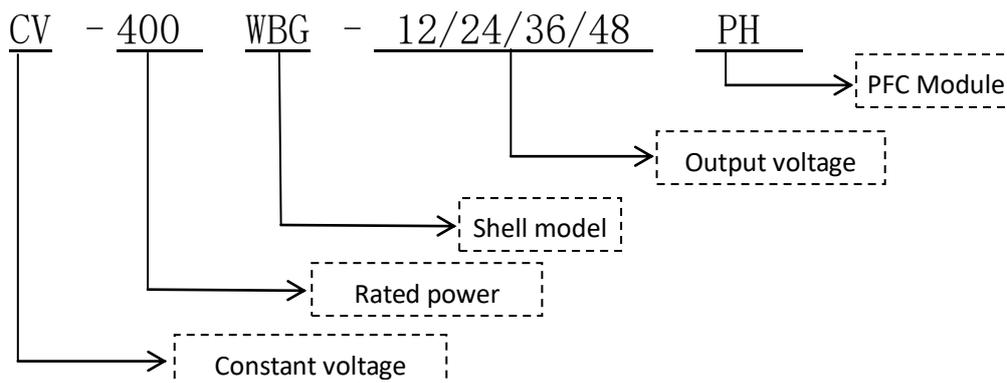
● **Reference standard**

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-400WBG-P serial product is one model 400W IP67 waterproof power supply, this serial product is 400W IP67 waterproof power supply, built in active PFC, input voltage range: 180~264VAC, Output voltage 12V, 24V, 36V and 48V, it can applicable for outdoor lighting, architectural lighting, decorative lighting, sign lighting, led industry light, high-pole lamp, stadium lamp, street lamp and etc, adopt aluminum shell waterproof design, high efficiency, compact shell, good heat exchange to ensure this serial product can long time stable working.

● **Product Encoding**



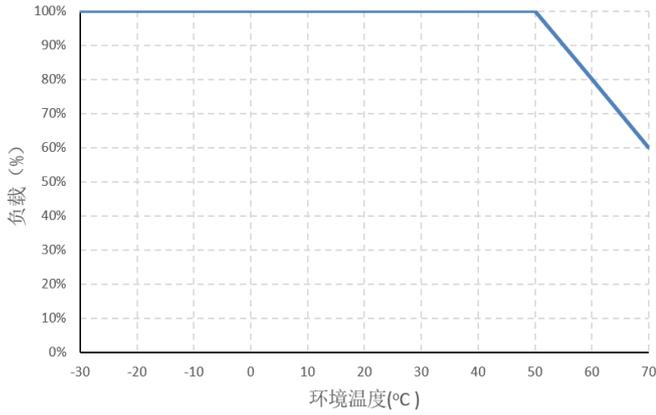
● Electronic Parameter

Model		CV-400WBG-12PH	CV-400WBG-24PH	CV-400WBG-36PH	CV-400WBG-48PH
Input	Voltage range	180~264VAC			
	AC current	230VAC/2.2A			
	Efficiency	≥90.5%	≥93%	≥91%	≥91%
	Frequency range	47~63HZ			
	Leakage current	<1mA/240VAC			
	Inrush current	Cold start 80A/230VAC			
Input	Voltage range	PF≥0.95			
Output	DC voltage	12V	24V	36V	48V
	Rated current	33.3A	16.7A	11.1A	8.35A
	Power	399.6W	400.8W	399.6W	400.8W
	Voltage adjustment range	/	/	/	/
	Ripple & noise	240mVp-p	300mVp-p	400mVp-p	500mVp-p
	Setup, rise time	2000ms, 30ms/ (230VAC) load 100%			
	Keep time	15ms / (230VAC) load 100%			
	Line regulation	±0.5%	±0.5%	±0.5%	±0.5%
	Load regulation	±1.5%	±1.5%	±1.5%	±1.5%
	Voltage tolerance	±3.0%	±3.0%	±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:1.8KVac/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	Voltage limited, Rated voltage 115%~150%			
	Over load	105%~135% rated load, recover automatically after overload removed			
	Over temperature	/			
	Short circuit	Power protection after output end short circuit, remove short circuit automatically recover.			
Environment	Working temperature and humidity	-30~70℃ 20%~95%RH Non condensing (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 cycle 10min., 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°C environment :100000Hrs, MIL-217 Method
Other requirement	Dimension	258*74*46 mm (L*W*H)
	Packing	1.3Kg/pc,16pcs/carton, 23KG/carton
	Way of cooling	<input checked="" type="checkbox"/> self-cooling <input type="checkbox"/> forced air cooling
	Extension modes	<input type="checkbox"/> Double three proofing <input type="checkbox"/> With cover <input type="checkbox"/> Low temperature set up((-30°C) <input type="checkbox"/> Other
Remark	<p>* 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.</p> <p>* 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.</p> <p>*All electrical performance test under 25°Cenvironment .</p> <p>*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.</p>	

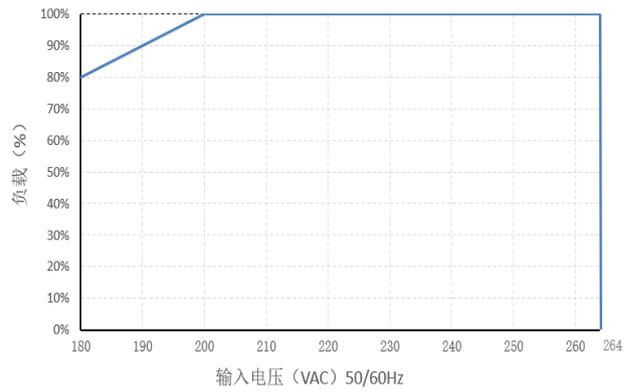
● Output load and temperature curve

负载VS环境温度

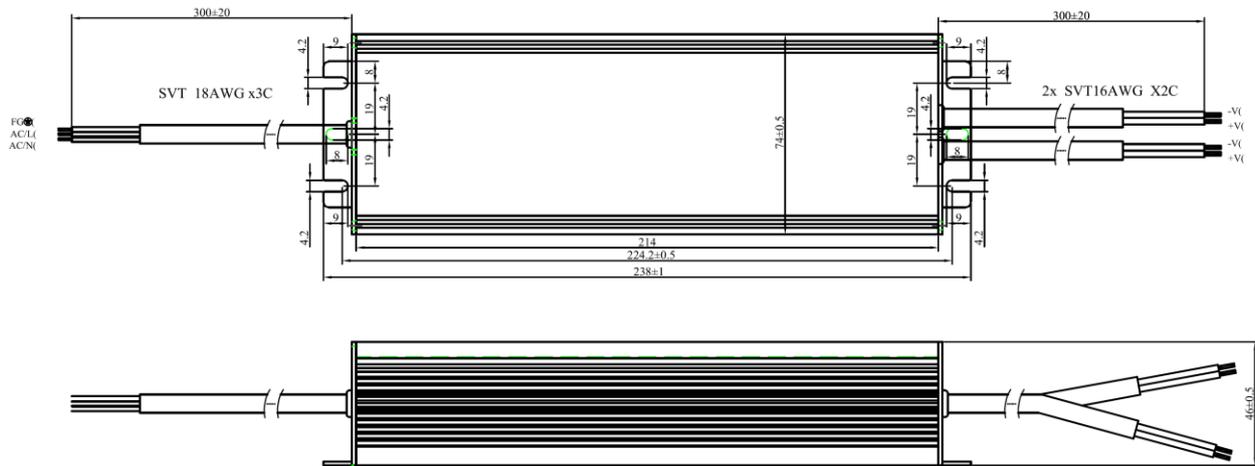


● Static characteristics curve

负载VS输入电压



● Mechanical specification



● Product installation and instruction

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. Transport:

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.