



● Features

- Input voltage 90~132VAC
- IP67 Level
- -40~+70℃ working temperature(refer to derating curve)
- Lightning Protection: Line to Line 2KV, Line to Ground 4KV
- Protections:Short circuit/Over load
- 2 years warranty

- **Application:**Outdoor lighting,Architectural lighting,Decorative lighting,Sign light,Street light and etc.

- **Approvals:**



- **Standard:**

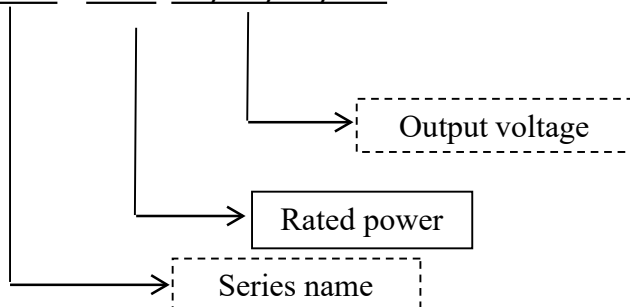
EN61547\EN61000-4-2,3,4,5,6,8,11\ GB17625.1\EN61000-3-3\EN55015\GB17743\GB19150.1\14/EN61347-1, -2-13

- **Product Description:**

CYV-100 series is 100W waterproof power supply with IP67 high protection level.The input voltage ranges are from 90 to 132Vac.This series of products are designed for high temperature resistance.The working temperature of full load can reach as high as 50 ℃.It is specially designed for outdoor lighting, indoor and outdoor lighting,and street lamps.Super high efficiency,compact shell design,good heat dissipation,and all-round protection ensure the long-term stability of this series of products.

- **Product name**

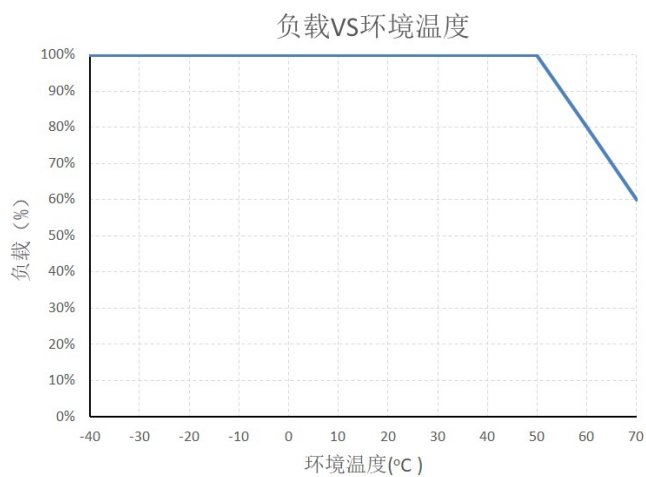
CYV – 100 -12/24/36/48



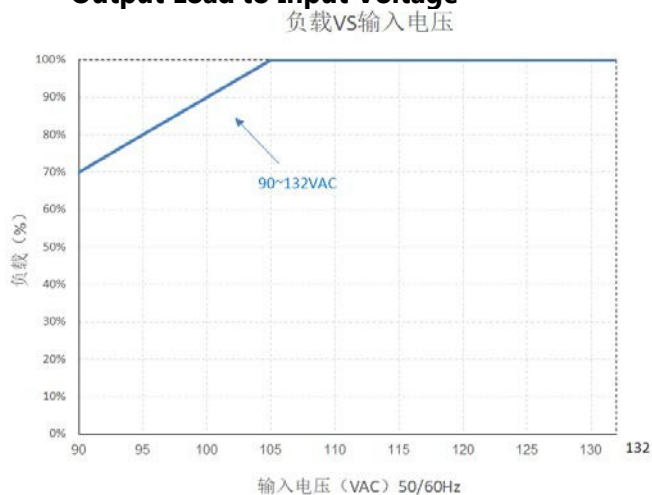
✓ Electrical parameters

| Model | | CYV-100-12 | | CYV-100-24 | CYV-100-36 | CYV-100-48 |
|---------------------|--|---|-----------|------------|------------|------------|
| Input | Voltage range | 90~132VAC | | | | |
| | Current | 110VAC/1.2A | | | | |
| | Efficiency | ≥88% | ≥89% | | ≥90% | ≥90% |
| | Frequency range | 47~63HZ | | | | |
| | Leakage current | <0.75mA/110VAC | | | | |
| | Inrush current | 40A/110VAC（Input 110Vac/50Hz,under 50% Ipeak testing twidth=700us, power supply start-up in cold | | | | |
| | QTY of 16A Circuit Breakers Configurable with the Same Type of | 110VAC,configure with 4 pcs(B type breaker)/7 pcs(C type breaker) | | | | |
| | No-load/standby loss | <1.7W | | | | |
| Output | DC voltage | 12V | 24V | 36V | 48V | |
| | DC voltage | 5A | 3.8A | 2.56A | 2.1A | |
| | Power | 60W | 91.2W | 92W | 100.8W | |
| | Voltage adjust range | / | / | / | / | |
| | Ripple and noise | ≤600mVp-p | ≤800mVp-p | ≤800mVp-p | ≤1500mVp | |
| | Start up time | 2000ms/20ms（230VAC load100%） | | | | |
| | Hold up time | 8ms/（230VAC）load100% | | | | |
| | Linear adjustment rate | ±2% | ±2% | ±2% | ±2% | |
| | Load adjustment rate | ±2% | ±2% | ±2% | ±2% | |
| | Output Voltage | ±4% | ±4% | ±4% | ±4% | |
| EMC | Electromagn etic | Design refer to EN55035:2017 EN61547;EN61000-4-2,3,4,5,6,8,11;(surge immunity Line-Earth 2KV) | | | | |
| | Harmonic current | Design refer to GB17625.1;EN61000-3-2 ClassA, EN61000-3-3 | | | | |
| | EMI | Design refer to EN55015, GB17743 , EN55032: 2015 Class B | | | | |
| Safety | Safety specification | Design refer to GB19150.1, 14/EN61347-1, -2-13/EN62368/IP67 | | | | |
| | Withstand voltage | I/P-O/P:3KVac/10mA;I/P-CASE:1.5KVac/10mA;O/P-CASE:0.5KVac/10mA 1min for each test | | | | |
| | Insulation impedance | I/P-O/P:100M ohms; I/P-Case:100M ohms; O/P-Case:100M ohms | | | | |
| Protect ion | Over voltage | / | | | | |
| | Over load | 115~135% load(CC limit),After eliminating overload, normal work can be automatically restored. | | | | |
| | Over temperature | / | | | | |
| | Short circuit | Power supply protection after output short circuit can automatically restore output after eliminating short circuit | | | | |
| Environm ent | Working temperature | Ta=-40~70℃/TC=-40~90℃（refer to derating curve）, 20%~95%RH no condensing | | | | |
| | Storage temperature | -40℃~80℃; 10%~95%RH no condensing | | | | |
| | Vibration | Frequency range 10 ~ 500Hz,acceleration 5G, Each sweep cycle 10min.6 sweep cycles along X, Y and | | | | |
| | Shock | Acceleration 20G, Duration 11mS, 3 shocks along X, Y and Z axes | | | | |
| | Altitude | / | | | | |
| | Warranty | 2 ye ar s（refer to lifetime diagram） | | | | |
| Reliability | IP Level | IP67 | | | | |
| | MTBF | Under 25℃:250000Hrs, MIL-217 Method | | | | |
| Other requirem ents | Size | 152*37.5*31mm（L*W*H） | | | | |
| | Package | 0.35Kg/pcs, 20pcs/box,12KG/box | | | | |
| | Cooling mode | <input checked="" type="checkbox"/> Free air <input type="checkbox"/> Fan | | | | |
| Remarks | *In order to prolong the service life, it is recommended to leave 20% more allowance when configuring the load. For example, if the equipment needs 100W power, the power supply should be not less than 120W. *The ripple test method of switching power supply: 20 MHz oscilloscope is used to test the output terminal of power supply. The length of ground wire of oscilloscope probe is not more than 12 mm, and 47 uF electrolytic capacitor and 0.1 uF high frequency capacitor are input into the probe. *All electrical performance tests are performed at 25 C. | | | | | |

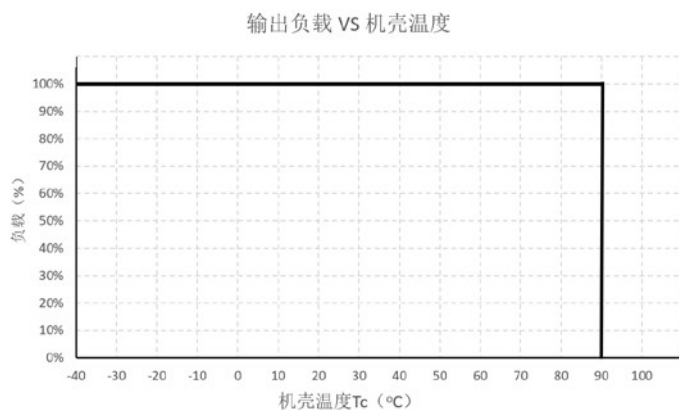
● **Load and temperature curve**



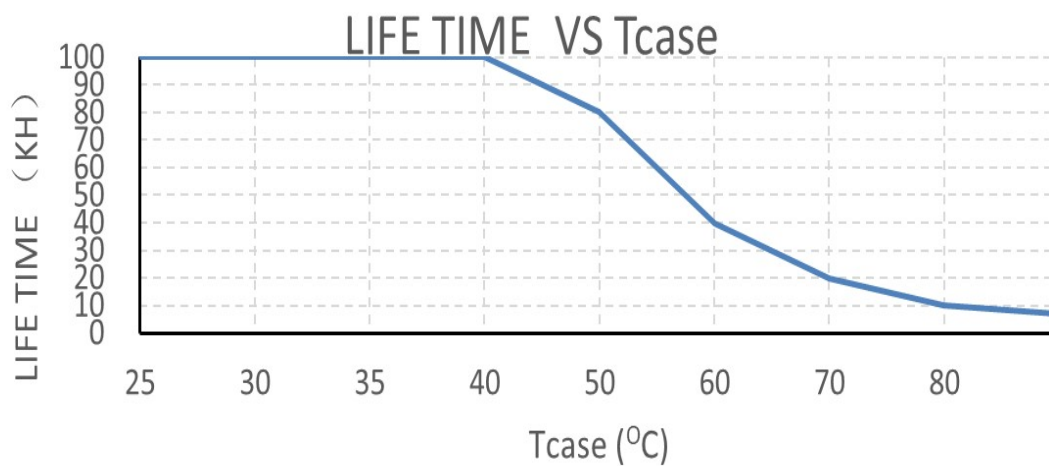
Output Load to Input Voltage



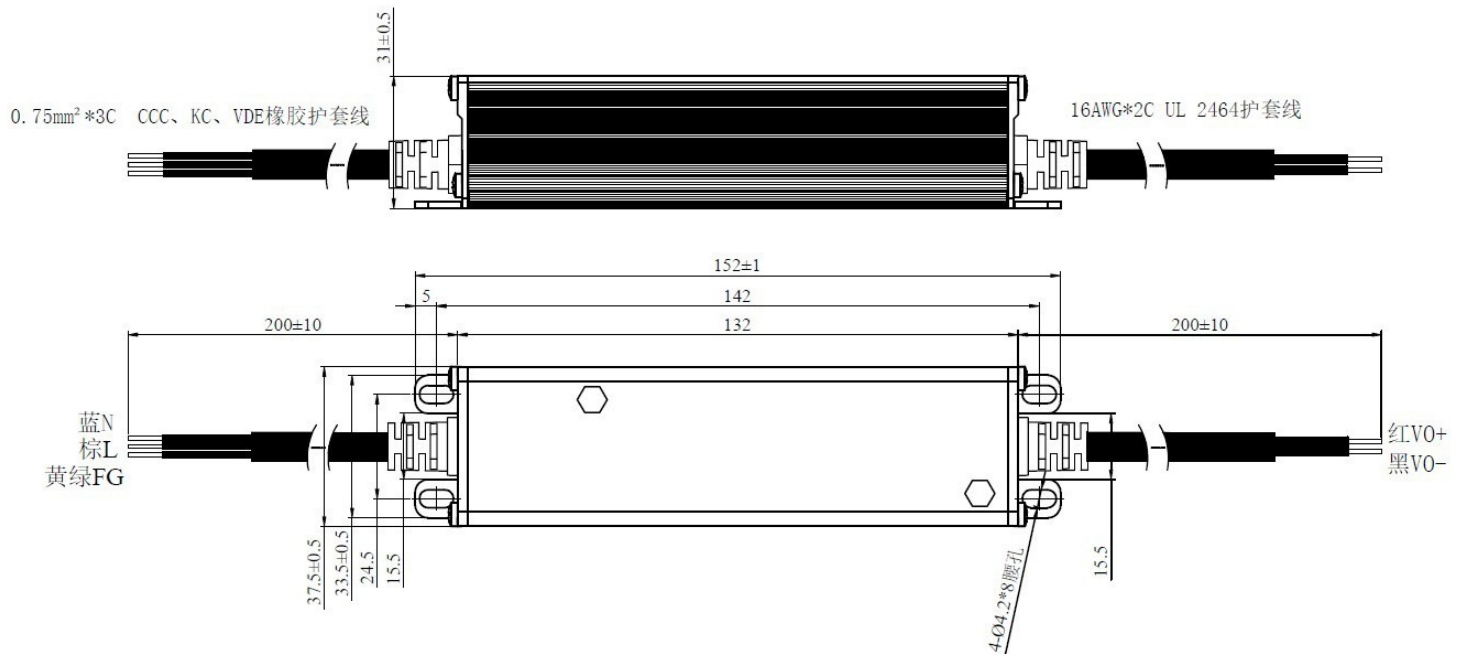
● **Output load to shell temperature**



● **LIFETIME**



● Install drawing



● Use instructions:

- 1、 please follow the installation instructions when use the powersupply。
- 2、 Before power on test run after installation, please check and proofread the wiring on each terminal, make sure that the input and output, AC and DC, positive and negative, voltage and current values are correct, prevent the occurrence of wrong connection, and avoid damaging the power supply and user equipment。
- 3、 Before power on, please use a multimeter to measure whether the live wire, zero wire and ground wire are short circuited, and whether the output terminal is short circuited; it is better to start without load when power on。
- 4、 Do not exceed the nominal value of the power supply when using, so as not to affect the reliability of the product. If you need to change the output parameters of the power supply, please consult our technical department before using.
- 5、 In order to ensure the safety of use and reduce interference, please ensure that the grounding terminal is reliably grounded (ground wire please thicker than AWG18#) 。
- 6、 If the power supply fails, please do not repair it without permission. Please contact our customer service department as soon as possible, customer serviceline: 86-519-85215050.

● Transport、 storage:

- 1、 Transport:
The package is suitable for shipping by automobiles, ships, airs, trains, etc. During transportation, it shall be rain proof,loaded and unloaded gently。
- 2、 **Storage:**
When the product is not in use, it shall be placed in the packing box. The storage environment temperature and relative humidity shall meet the requirements of the product. No corrosive gas or product in the warehouse, and no strong mechanical vibration, impact and strong magnetic field. The packing box shall be padded at least 20cm above the ground, and not be soaked. If the storage time is too long (more than 1 year), itshall be rechecked by professionals before use.