



● Features

- ✓ Fully sealed aluminum case
- ✓ IP67
- ✓ $-30\sim+70^{\circ}\text{C}$ working temperature (refer to derating curve)
- ✓ 100% pass aging test
- ✓ 2 years warranty

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

- **Approvals:**



- **Standard:**

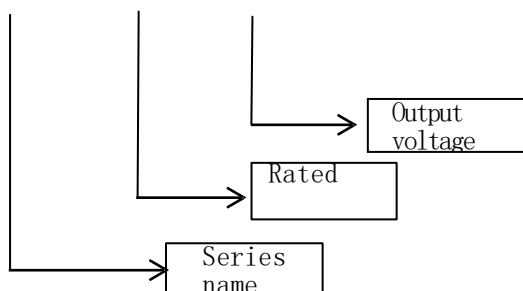
EN61547\EN61000-4-2, 3, 4, 5, 6, 8, 11\ GB17625.1\EN61000-3-2\EN61000-3-3\ EN55015\GB17743\ GB19150.1\14/EN61347-1, -2-13\EN62384\UL8750

- **Product Description:**

Cyv-400 series products are a 400W IP67 waterproof power supply, with input voltage range of $176 \sim 264\text{Vac}$, output voltage of 12V, 24V, etc., which can be used in LED fields such as external lighting, building lighting, decoration lighting, sign lighting, mining lamp, high pole lamp, stadium lamp and street lamp. Aluminum shell waterproof design, super high efficiency, compact shell, good heat dissipation, ensure that the series of products can work stably for a long time.

- **Product name**

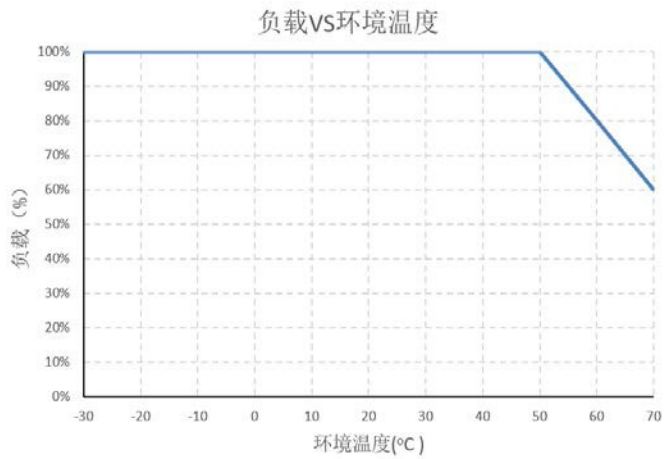
CYV - 400 -12/24



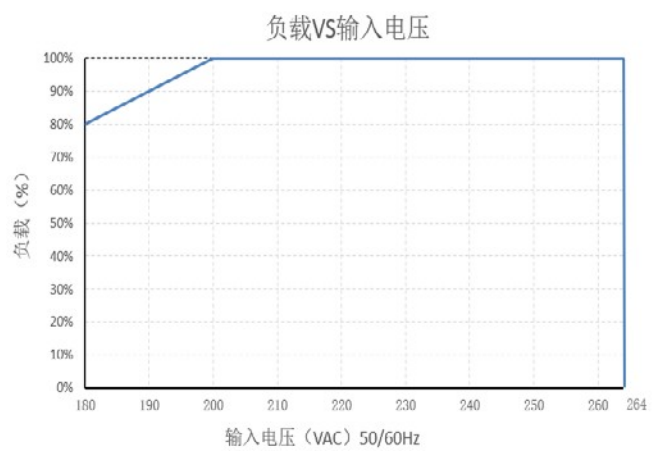
● Electrical parameters

| Model | | CYV-400-12 | CYV-400-24 |
|--------------------|--|---|------------|
| Input | Voltage range | 180~264VAC | |
| | Current | 230VAC/4.28A | |
| | Frequency | ≥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 adjust | / | / |
| | Ripple and noise | 200mVp-p | 300mVp-p |
| | Start up time | 1500ms, 30ms/（230VAC）负载 100% | |
| | Hold up time | 10ms /（230VAC）负载 100% | |
| | Linear adjustment | ±0.5% | ±0.5% |
| | Load adjustment | ±2.0% | ±2.0% |
| | Output Voltage Accuracy | ±3.0% | ±3.0% |
| EMC | Electromagnetic | Compliance to:EN61547;EN61000-4-2,3,4,5,6,8,11; | |
| | Harmonic current | Compliance to:GB17625.1;EN61000-3-2, EN61000-3-3 | |
| | EMI | Compliance to:EN55015, GB17743 class B | |
| Safety | Safety specification | Compliance to:GB19150.1,14/EN61347-1, -2-13/EN62384 /UL8750/IP67 | |
| | Withstand voltage | I/P-O/P:3KVac/10mA; I/P-CASE:1.5KVac/10mA; O/P-CASE:0.5KVAC/10mA, time of each test:1min | |
| | Insulation | I/P-O/P:100M ohms; I/P-Case:100M ohms; O/P-Case:100M ohms | |
| Protections | Over voltage | Limited type, 115%~135% of rated voltage | |
| | Over load | 105%~120% constant current limiting,recovers automatically after fault condition is removed | |
| | Over temperature | / | |
| | Short circuit | Power supply protection after output short circuit can automatically restore output after eliminating short circuit | |
| Environment | Working | -30~70℃ 20%~95%RH no condensing （refer to derating curve） | |
| | Storage | -40℃~85℃; 10%~95%RH no condensing | |
| | Vibration | Frequency range 10 ~ 500Hz,acceleration 5G, Each sweep cycle 10min.6 sweep cycles along | |
| | Shock | Acceleration 20G, Duration 11mS, 3 shocks along X,Y and Z axes | |
| | Altitude | 2000mtrs (The ambient temperature decreases by 0.6℃ every 100m above 2000m) | |
| Reliability | MTBF | Under 25℃:250000Hrs, MIL-217 Method | |
| Other requirements | Size | 238*74*46 mm (L*W*H) | |
| | Package | 1.3Kg/PC, 14PCS/CTN, 19KG/CARTON | |
| | Cooling mode | <input checked="" type="checkbox"/> Free air <input type="checkbox"/> fan | |
| 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 | | |

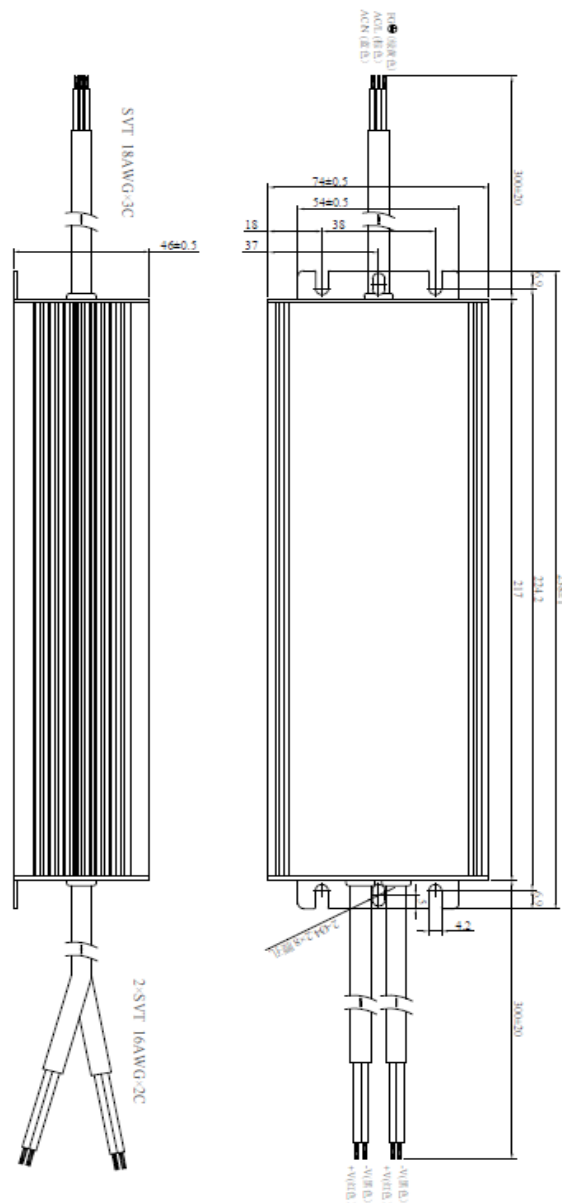
- **Load and temperature curve**



- **Static characteristic curve**



- **Install drawing**



● **Use instructions:**

- 1、 please follow the installation instructions when use the power supply.
- 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 service line: 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), it shall be rechecked by professionals before use.