



Class 2



#### ◆Feature

- .Constant voltage design
- . Input voltage: 100-120Vac
- .Small dimension, High efficiency, High reliability, Long lifetime
- .IP44 design for indoor installation
- .Working temperature: -15℃~+40℃
- .Protections: Overload, Over voltage, Short-circuit, etc.
- .Typical efficiency: 89%.
- .UL,CLASS2,RoHS compliant
- .100% full load burn-in test

## SPECIFICATION

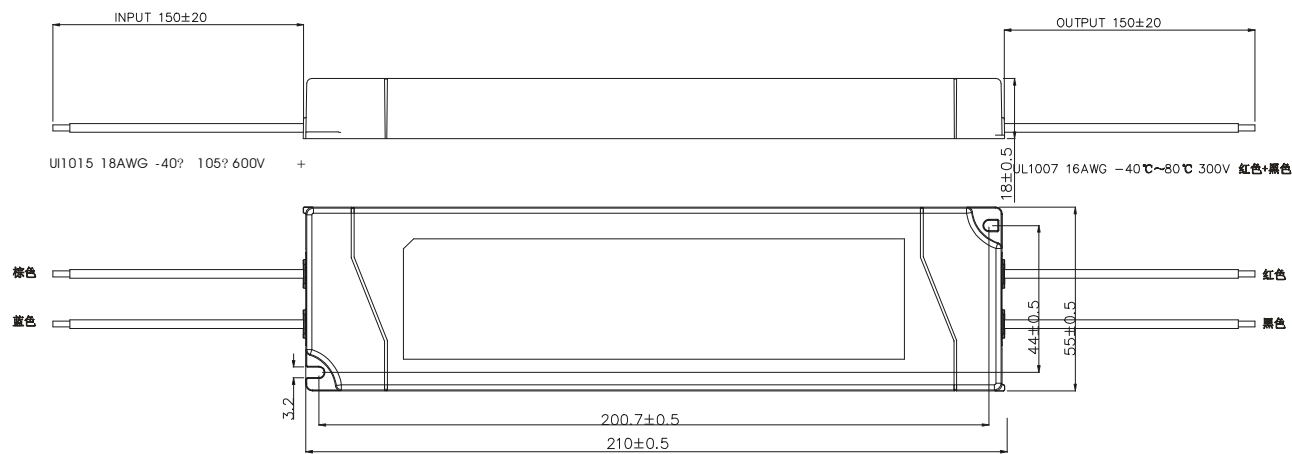
| Model Number |                              | HVBC-12100A0762   | HVBC-24100A0762 |  |  |
|--------------|------------------------------|---|-----------------|--|--|
| Output       | DC Voltage                   | 12V   | 24V             |  |  |
|              | Rated current                | 8.33A   | 4.0A            |  |  |
|              | Current range                | 0-8.33A   | 0-4.0A          |  |  |
|              | Rated power                  | 100W  | 96W             |  |  |
|              | Ripple and Noise(max.) Note4 | 240mVp-p  | 360mVp-p        |  |  |
|              | Voltage tolerance Note3      | ±4%   | ±2%             |  |  |
|              | Line regulation              | ±1%   | ±0.5%           |  |  |
|              | Load regulation              | ±2%   | ±1%             |  |  |
|              | Output groups                | 1   | 1               |  |  |
|              | Set up time Note6            | 300 ms, 50ms (at full load) 110Vac  |                 |  |  |
| Input        | Holding time(Typ.)           | 15ms(at full load) 110Vac   |                 |  |  |
|              | Voltage range Note 2         | 90 ~130Vac or 127~184Vdc  |                 |  |  |
|              | Frequency range              | 47~63Hz   |                 |  |  |
|              | Power factor(Typ.)           | PF≥0.6/100V(at full load)   |                 |  |  |
|              | Efficiency(Typ.)             | 89%   | 89%             |  |  |
|              | AC current                   | Max 2.44A   |                 |  |  |
|              | Inrush current(Typ.)         | Cold start: 50A/110Vac  |                 |  |  |
| Protection   | Leakage current              | <0.5mA/120Vac   |                 |  |  |
|              | Over load                    | 105%-145% of the rated output power<br>Protection mode: Restrict the current,recovers automatically after the load reduced. |                 |  |  |
|              | Short circuit                | Protection type: Hiccup mode, recovers automatically after fault conditions removed.  |                 |  |  |
|              | Over voltage                 | 12.5-18.0V  | 24.5-35.0V      |  |  |
|              | Over temperature             | Protection type: Hiccup mode, recovers automatically after fault conditions removed.  |                 |  |  |
| Environment  | Working temperature          | -15℃~+40℃   |                 |  |  |
|              | Working humidity             | 10%~90%RH, non-condensing   |                 |  |  |
|              | Storage temp. and humidity   | -25℃~+75℃, 5%~95%RH   |                 |  |  |
|              | Temp. coefficient            | ±0.05%/℃ (0~40℃)  |                 |  |  |
|              | Vibration                    | 10-300Hz, 1G 10min./cycle, period for 60min. each along X, Y, Z axes  |                 |  |  |
| Safe and EMC | Safety standards             | Compliance to UL8750 IP44 rating.   |                 |  |  |
|              | Withstand voltage            | I/P-O/P: 3.75KVAC   |                 |  |  |
|              | Insolation resistance        | I/P-O/P, 100Mohms/500Vdc 25℃/70%RH  |                 |  |  |
|              | EMC Emission                 | Compliance to FCC   |                 |  |  |
|              | EMC Immunity                 | /   |                 |  |  |
| Others       | MTBF                         | ≥200Khrs, MIL-HDBK-217F(25℃)  |                 |  |  |
|              | Dimension                    | 210X55X18 mm(L*W*H)   |                 |  |  |
|              | Packing                      | 0.35 Kg/PCS, 42PCS/14.7Kg/box, (420X340X200 mm)   |                 |  |  |

## NOTE

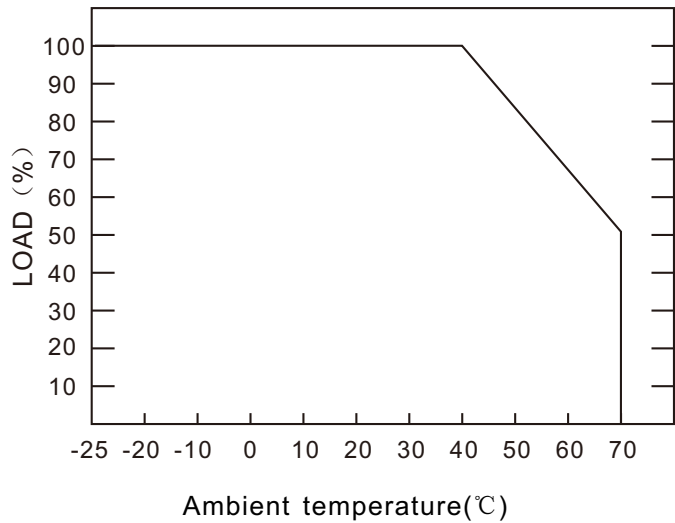
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
2. Derating may be needed under low input voltages. Please check the static characteristics for more details.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. Ripple & noise are measured at 20MHZ of bandwidth by using twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-confirm EMC Directive on the complete installation.
6. The start time was tested under the situation of cold star, continuous switching on/off may raise the start time.
7. Because the certification is different, the input current and safety requirements of the parameter is slightly different

■ Mechanical Specification

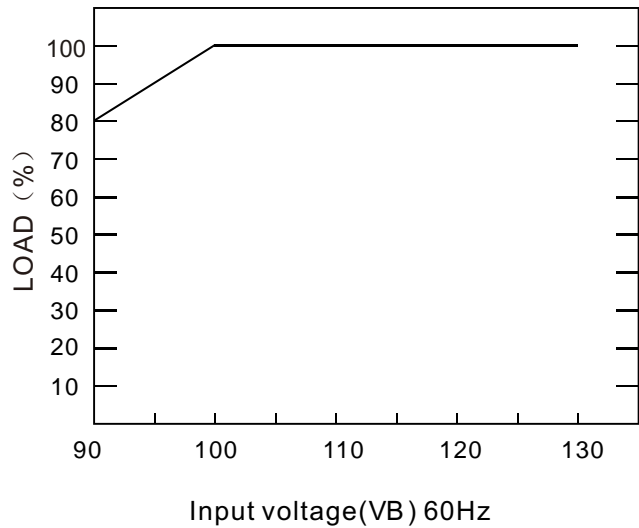
Case No. A0762 Unit:mm



■ Derating Curve



■ Static Characteristics



The above is Tauras standard product, customized product is available. We TAURAS has the right to ultimate interpretation.

|              |  |                 |  |  |              |
|--------------|--|-----------------|--|--|--------------|
| Designed by  |  | Standardization |  | A0762 type   | Version: 2.0 |
| Corrected by |  | Approved by     |  |  中山市金兴智能技术有限公司<br>ZHONGSHAN TAURAS TECHNOLOGIES CO.,LTD |              |
| Checked by   |  |                 |  |  |              |