

◆Feature

- .Constant voltage design
- .High input voltage
- .Small dimension, High efficiency, High reliability, Long lifetime
- .Ip66 design for outdoor installation
- .Working temperature: -25℃~+50℃
- .Protections: Overload, Over voltage, Short-circuit, etc.
- .Typical efficiency: 87.5%
- .CE\IP66 certified, RoHS compliant
- .100% full load burn-in test.



**SPECIFICATION**

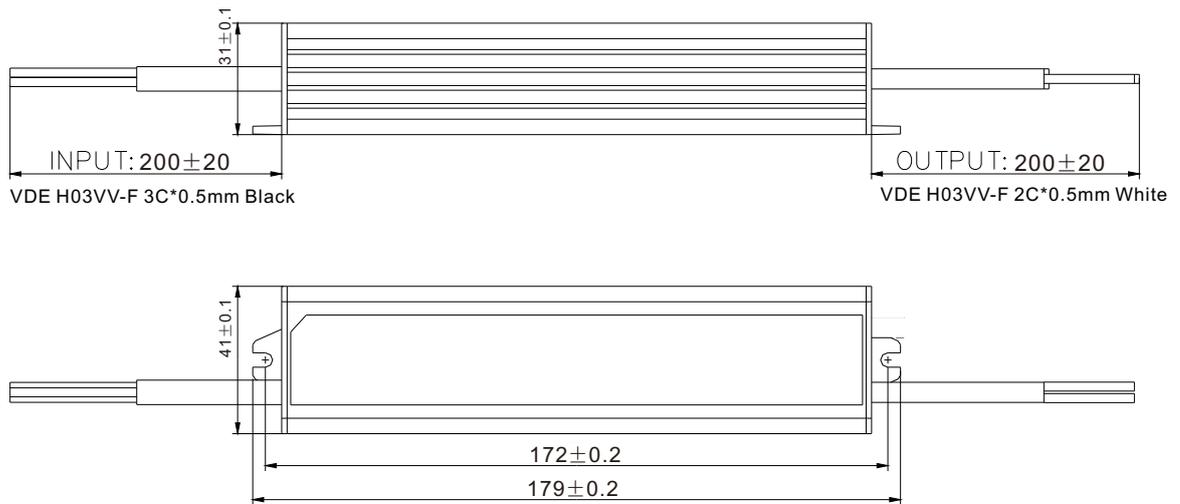
| Model Number       |                              | VA-12060D0891   | VA-24060D0891 |          |  |
|--------------------|------------------------------|---|---------------|----------|--|
| Output             | DC Voltage                   | 12V   | 24V           |          |  |
|                    | Rated current                | 5 A   | 2.5 A         |          |  |
|                    | Current range                | 0-6.67A   | 0-3.34A       |          |  |
|                    | Rated power                  | 0W  | 0W            |          |  |
|                    | Ripple and Noise(max.) Note4 | 120mVp-p  | 240mVp-p      |          |  |
|                    | Voltage tolerance Note3      | ±4%   | ±2%           |          |  |
|                    | Line regulation              | ±1%   | ±0.5%         |          |  |
|                    | Load regulation              | ±2%   | ±1%           |          |  |
|                    | Output groups                | 1   | 1             |          |  |
|                    | Set up time Note6            | 2000ms, 50ms(at full load) 230Vac   |               |          |  |
| Holding time(Typ.) | 15ms(at full load) 230Vac    |   |               |          |  |
| Input              | Voltage range Note 2         | 170~264Vac or 240~374Vdc  |               |          |  |
|                    | Frequency range              | 47~63Hz   |               |          |  |
|                    | Power factor(Typ.)           | PF≥0.45/230V(at full load)  |               |          |  |
|                    | Efficiency(Typ.)             | 87%   | 87.5%         | 87.5%    |  |
|                    | AC current                   | 0.94A/230Vac  |               |          |  |
|                    | Inrush current(Typ.)         | Cold start: 50A/230Vac  |               |          |  |
|                    | Leakage current              | <0.75mA/240Vac  |               |          |  |
| Protection         | Over load                    | 110%-135% of the rated output power<br>Protection mode: constant current limiting, recovers automatically after the load reduced. |               |          |  |
|                    | Short circuit                | Protection type: Hiccup mode, recovers automatically after fault conditions removed   |               |          |  |
|                    | Over voltage                 | 12.5-18V  | 25-34V        | 30.5-40V |  |
|                    | Over temperature             | Ta:55℃~65℃<br>Protection mode: Power off the output voltage, self-recovery when the temperature reduced                           |               |          |  |
| Environment        | Working temperature          | -25℃~+50℃   |               |          |  |
|                    | 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 EN61347-1, EN61347-2-13, Ip66 waterproof rating.  |               |          |  |
|                    | Withstand voltage            | I/P-O/P: 3.75KVAC I/P-FG: 1.875KVAC O/P-FG: 0.5kVAC   |               |          |  |
|                    | Insolation resistance        | I/P-O/P, I/P-FG, O/P-FG: 100Mohms/500Vdc 25℃/70%RH  |               |          |  |
|                    | EMC Emission                 | /   |               |          |  |
|                    | EMC Immunity                 | /   |               |          |  |
| Others             | MTBF                         | ≥200Khrs, MIL-HDBK-217F(25℃)  |               |          |  |
|                    | Dimension                    | 179X41X31mm(L*W*H)  |               |          |  |
|                    | Packing                      | 0.4Kg/PCS, 40PCS/16Kg/box, (425X265X190mm)  |               |          |  |

**NOTE**

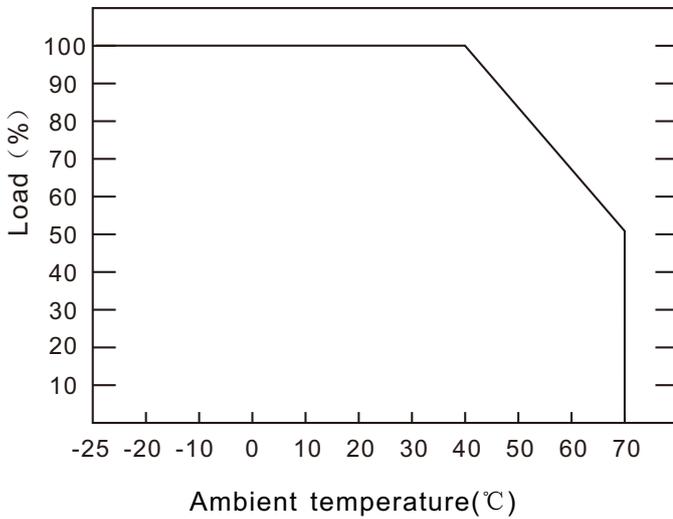
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
2. Derating may be needed under low input voltages. Please check the static characteristics for more details.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
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.

■ Mechanical Specification

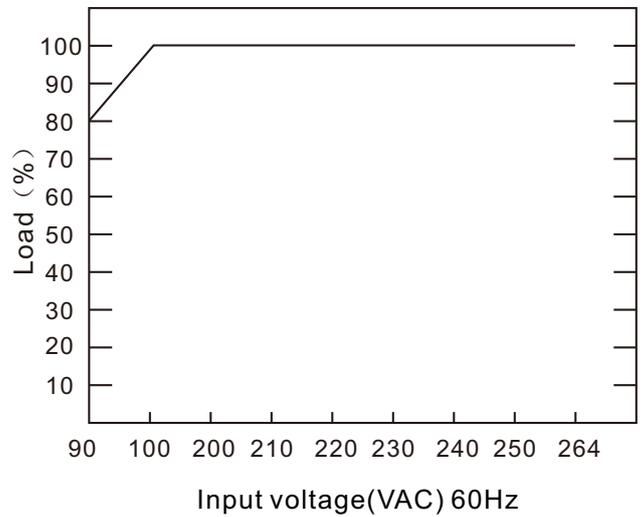
Case No. D0891 Unit: mm



■ Temperature Derating Curve



■ Input Derating Curve



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

|              |  |                 |  |            |              |
|--------------|--|-----------------|--|------------|--------------|
| Designed by  |  | Standardization |  | D0891 Spec | Version: 2.0 |
| Corrected by |  | Approved by     |  |            |              |
| Checked by   |  |                 |  |            |              |