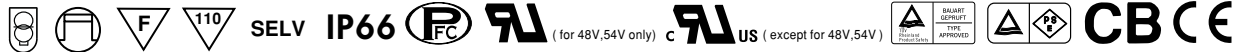




■ **Features :**

- Universal AC input / Full range (up to 295VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Output voltage and constant current level adjustable
- Built-in active PFC function
- IP66 design for indoor or outdoor installations
- Class 2 power unit
- Cooling by free air convection
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 3 years warranty

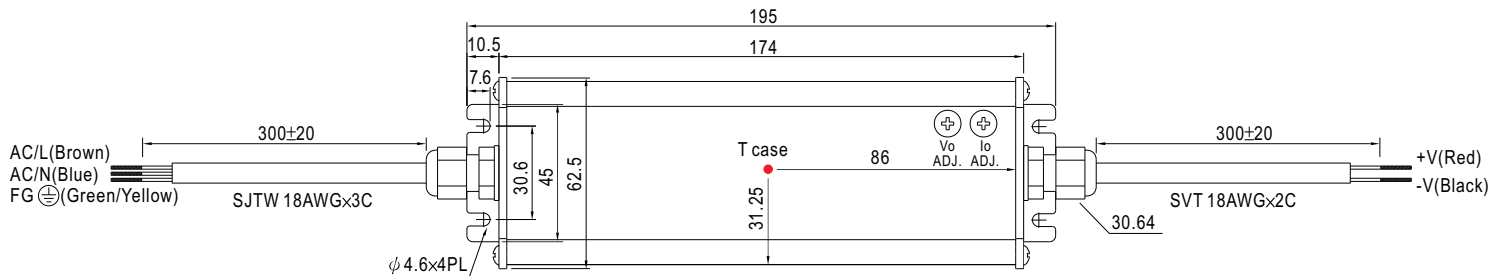
SPECIFICATION



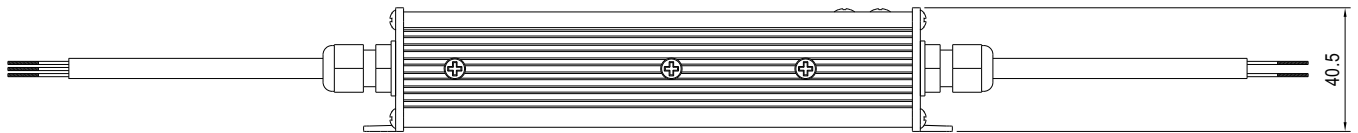
| MODEL | | CEN-100-20 | CEN-100-24 | CEN-100-30 | CEN-100-36 | CEN-100-42 | CEN-100-48 | CEN-100-54 | |
|------------------------|---|--|--------------|-------------|--------------|--------------|------------|--------------|--|
| OUTPUT | DC VOLTAGE | 20V | 24V | 30V | 36V | 42V | 48V | 54V | |
| | CONSTANT CURRENT OPERATION VOLTAGE <small>Note.5</small> | 13 ~ 20V | 15.6 ~ 24V | 19.5 ~ 30V | 23.4 ~ 36V | 27.3 ~ 42V | 31.2 ~ 48V | 35.1 ~ 54V | |
| | RATED CURRENT | 4.8A | 4A | 3.2A | 2.65A | 2.28A | 2A | 1.77A | |
| | CURRENT RANGE | 0 ~ 4.8A | 0 ~ 4A | 0 ~ 3.2A | 0 ~ 2.65A | 0 ~ 2.28A | 0 ~ 2A | 0 ~ 1.77A | |
| | RATED POWER | 96W | 96W | 96W | 95.4W | 95.76W | 96W | 95.58W | |
| | RIPPLE & NOISE (max.) <small>Note.2</small> | 2.0Vp-p | 2.7Vp-p | 3Vp-p | 3.6Vp-p | 4Vp-p | 4.6Vp-p | 5Vp-p | |
| | VOLTAGE ADJ. RANGE (SVR1) | 17 ~ 22V | 22 ~ 27V | 27 ~ 33V | 33 ~ 40V | 37 ~ 46V | 43 ~ 53V | 49 ~ 58V | |
| | CURRENT ADJ. RANGE (SVR2) | 3.12 ~ 4.8A | 2.6 ~ 4A | 2.08 ~ 3.2A | 1.72 ~ 2.65A | 1.48 ~ 2.28A | 1.3 ~ 2A | 1.15 ~ 1.77A | |
| | VOLTAGE TOLERANCE <small>Note.3</small> | ±10% | | | | | | | |
| | LINE REGULATION | ±3.0% | | | | | | | |
| LOAD REGULATION | ±5.0% | | | | | | | | |
| SETUP TIME | 3000ms / 230VAC 5000ms / 115VAC at full load | | | | | | | | |
| INPUT | VOLTAGE RANGE <small>Note.4</small> | 90 ~ 295VAC | 127 ~ 417VDC | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | |
| | POWER FACTOR (Typ.) | PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve) | | | | | | | |
| | EFFICIENCY (Typ.) | 88% | 89% | 90% | 90% | 90% | 91% | 91% | |
| | AC CURRENT (Typ.) | 1.4A/115VAC | 0.7A/230VAC | 0.5A/277VAC | | | | | |
| | INRUSH CURRENT (Typ.) | 60A/230VAC | | | | | | | |
| | LEAKAGE CURRENT | <0.75mA / 240VAC | | | | | | | |
| PROTECTION | OVER CURRENT | 95 ~ 110% Protection type : Constant current limiting, recovers automatically after fault condition is removed | | | | | | | |
| | SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed | | | | | | | |
| | OVER VOLTAGE | 22.8 ~ 26V | 28 ~ 32V | 34 ~ 38V | 41 ~ 46V | 47 ~ 52V | 54 ~ 60V | 59 ~ 65V | |
| | OVER TEMPERATURE | 100°C ±10°C (RTH1) Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -30 ~ +70°C (Refer to "Derating Curve") | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | | | |
| SAFETY & EMC | SAFETY STANDARDS | UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), TUV EN61347-1, EN61347-2-13, IP66, J61347-1, J61347-2-13 approved | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG: >100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | |
| | EMC EMISSION | Compliance to EN55015, EN61000-3-2 Class C (≥65% load) ; EN61000-3-3 | | | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547, light industry level (surge 4KV), criteria A | | | | | | | |
| OTHERS | MTBF | 519.5Khrs min. MIL-HDBK-217F (25°C) | | | | | | | |
| | DIMENSION | 195*62.5*40.5mm (L*W*H) | | | | | | | |
| | PACKING | 0.6Kg; 24pcs/15.4Kg/1.11CUFT | | | | | | | |
| NOTE | <ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. Constant current operation region is within 65% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 6. 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-qualify EMC Directive on the complete installation again. 7. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. | | | | | | | | |

■ Mechanical Specification

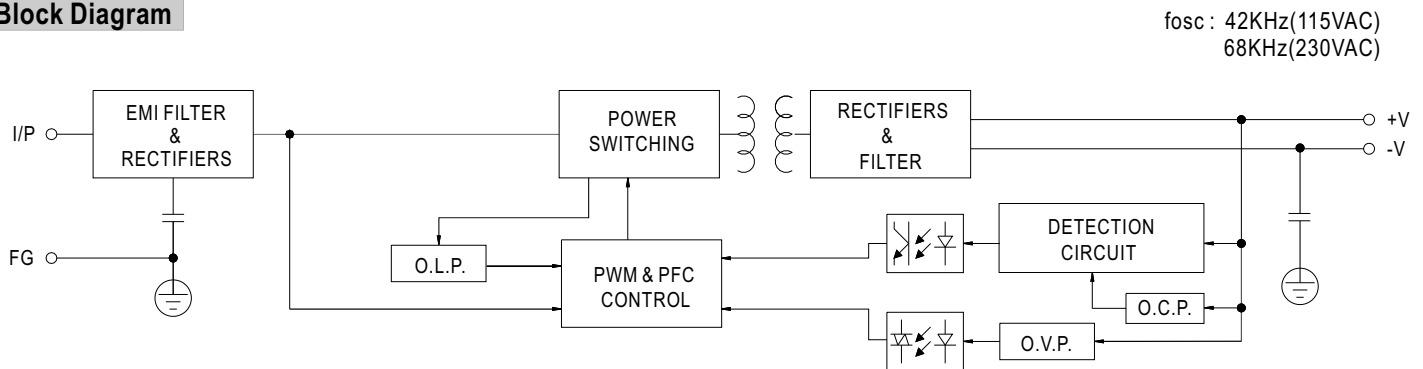
Case No. 993A Unit:mm



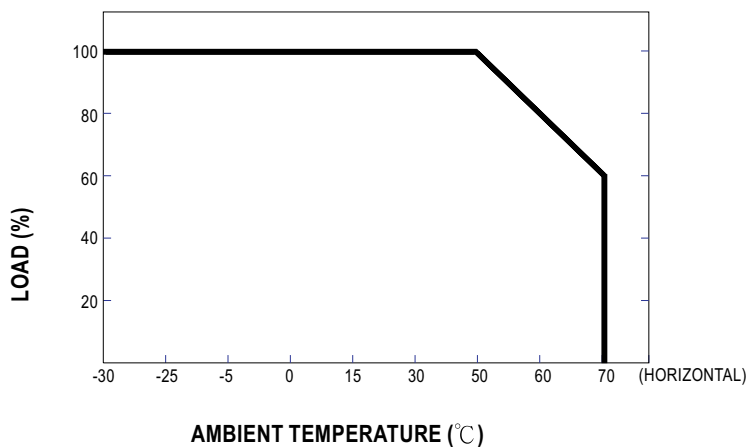
※ T case: Max. Case Temperature.



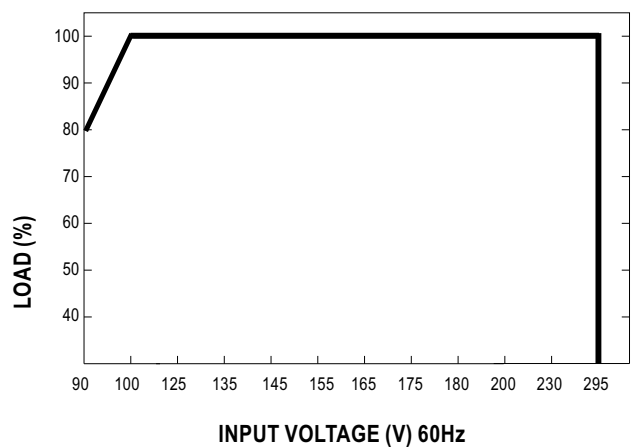
■ Block Diagram



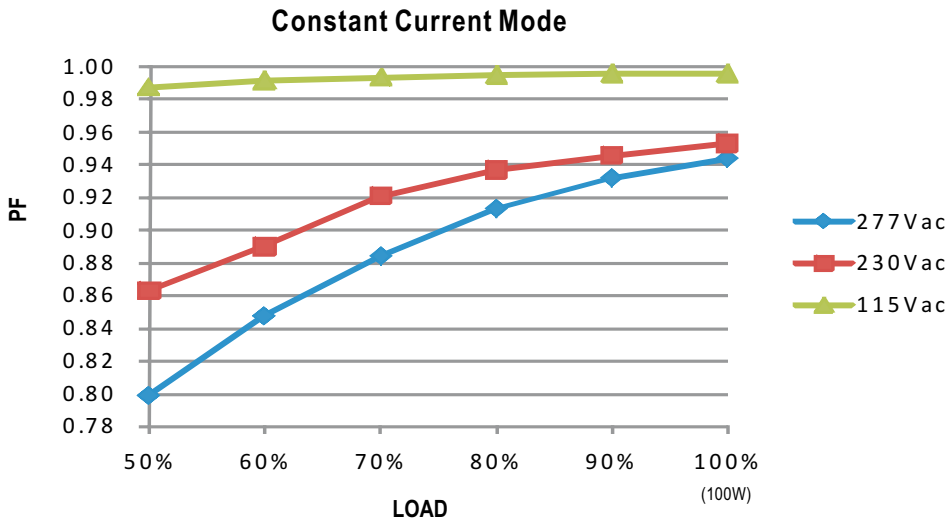
■ Derating Curve



■ Static Characteristics

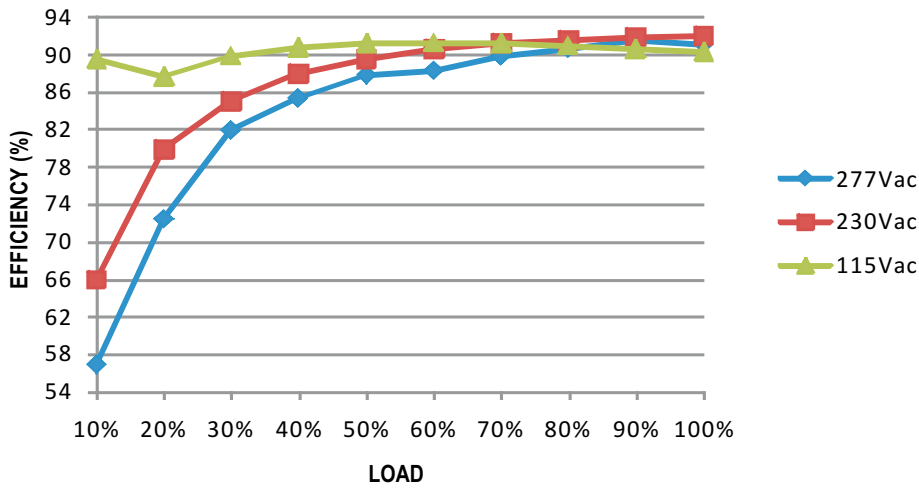


Power Factor Characteristic



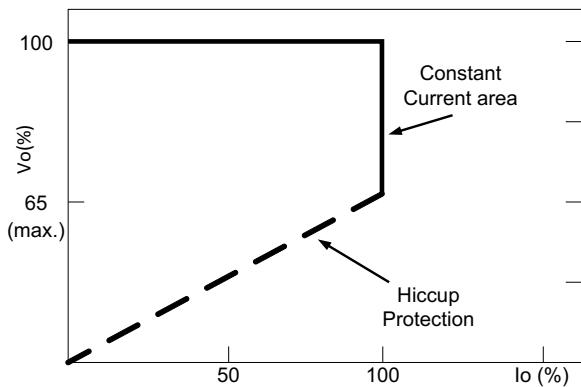
EFFICIENCY vs LOAD (48V Model)

CEN-100 series possess superior working efficiency that up to 91% can be reached in field applications.



DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



Typical LED power supply I-V curve



Стандарт Электрон Связь

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