



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

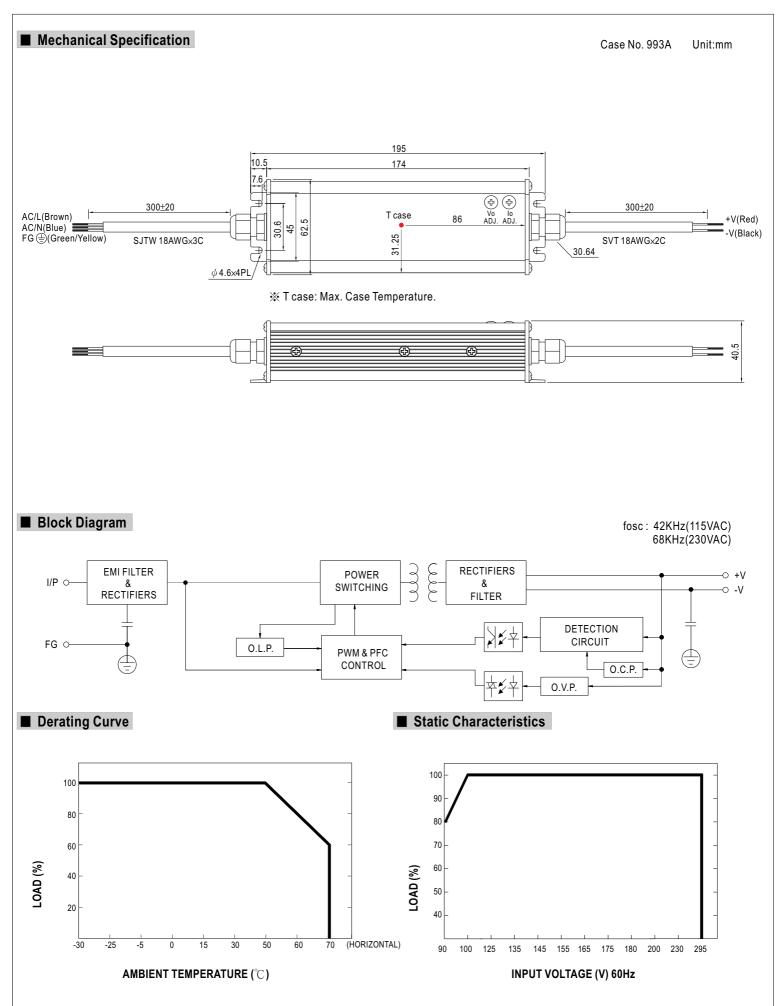
| SPECIFICATION | | | 110 | SELV | IP66 | R | 97 | (for 48V,54V only) | N | US (except for 48V,54V | BAJART GEPRIFT TYPE Shieland APPROVED Product Saleth | | CB | 3 | ϵ |
|---------------|--|--|-----|------|------|---|----|---------------------|----------|--------------------------------|--|--|----|---|------------|
|---------------|--|--|-----|------|------|---|----|---------------------|----------|--------------------------------|--|--|----|---|------------|

| OC VOLTAGE ONSTANT CURRENT OPERATION VOLTAGE Note.5 RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 | 20V 13~20V 4.8A 0~4.8A 96W | 24V 15.6 ~ 24V 4A | 30V 19.5 ~ 30V | 36V 23.4 ~ 36V | 42V | 48V | 54V | | | | | |
|---|---|-----------------------------|---|---|---|--|--|--|--|--|--|--|
| RATED CURRENT CURRENT RANGE RATED POWER | 4.8A 0 ~ 4.8A | 4A | | 23.4 ~ 36V | 07.0 401/ | | | | | | | |
| CURRENT RANGE RATED POWER | 0 ~ 4.8A | | 0.04 | | 27.3 ~ 42V | 31.2 ~ 48V | 35.1 ~ 54V | | | | | |
| RATED POWER | | 0 44 | 3.2A | 2.65A | 2.28A | 2A | 1.77A | | | | | |
| - | 96/// | 0 ~ 4A | 0 ~ 3.2A | 0 ~ 2.65A | 0 ~ 2.28A | 0 ~ 2A | 0 ~ 1.77A | | | | | |
| RIPPLE & NOISE (max.) Note.2 | 3011 | 96W | 96W | 95.4W | 95.76W | 96W | 95.58W | | | | | |
| | 2.0Vp-p | 2.7Vp-p | 3Vp-p | 3.6Vp-p | 4Vp-p | 4.6Vp-p | 5Vp-p | | | | | |
| OLTAGE 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 | | | | | |
| OLTAGE TOLERANCE Note.3 | ±10% | | | | | | | | | | | |
| INE REGULATION | ±3.0% | | | | | | | | | | | |
| OAD REGULATION | ±5.0% | | | | | | | | | | | |
| SETUP TIME | 3000ms / 230VAC 5000ms / 115VAC at full load | | | | | | | | | | | |
| OLTAGE RANGE Note.4 | ote.4 90 ~ 295VAC 127 ~ 417VDC | | | | | | | | | | | |
| REQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | | | |
| POWER FACTOR (Typ.) | PF>0.97/115VAC | Factor Characteris | tic" curve) | | | | | | | | | |
| FFICIENCY (Typ.) | 88% | 89% | 90% | 90% | 90% | 91% | 91% | | | | | |
| AC CURRENT (Typ.) | 1.4A/115VAC 0.7A/230VAC 0.5A/277VAC | | | | | | | | | | | |
| NRUSH CURRENT (Typ.) | 60A/230VAC | | | | | | | | | | | |
| EAKAGE CURRENT | <0.75mA / 240VAC | | | | | | | | | | | |
| OVED CURRENT | 95 ~ 110% | | | | | | | | | | | |
| VERCURRENT | Protection type: Constant current limiting, recovers automatically after fault condition is removed | | | | | | | | | | | |
| SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | | | |
| | 22.8 ~ 26V | 28 ~ 32V | 34 ~ 38V | 41 ~ 46V | 47 ~ 52V | 54 ~ 60V | 59 ~ 65V | | | | | |
| OVER VOLIAGE | Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | | | | | |
| 0//50 7514050 471105 | 100°C ±10°C (RTH1) | | | | | | | | | | | |
| OVER TEMPERATURE | Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | | | | | |
| VORKING TEMP. | -30 ~ +70°C (Ref | | | | | | | | | | | |
| VORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | | | | | | | |
| STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | | | | | | | | | | |
| EMP. COEFFICIENT | ±0.03%/°C (0~50°C) | | | | | | | | | | | |
| /IBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| VITHSTAND VOLTAGE | I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC | | | | | | | | | | | |
| SOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG: >100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | | | | |
| EMC EMISSION | Compliance to Ef | N55015, EN61000 | -3-2 Class C (≧6 | 5% load) ; EN6100 | 00-3-3 | | | | | | | |
| EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547, light industry level (surge 4KV), criteria A | | | | | | | | | | | |
| MTBF | | | | | | | | | | | | |
| DIMENSION | 195*62.5*40.5mm (L*W*H) | | | | | | | | | | | |
| PACKING | 0.6Kg; 24pcs/15. | 4Kg/1.11CUFT | | | | | | | | | | |
| SE CON NO. | ETUP TIME DLTAGE RANGE Note.4 REQUENCY RANGE DWER FACTOR (Typ.) FFICIENCY (Typ.) C CURRENT (Typ.) RUSH CURRENT (Typ.) EAKAGE CURRENT VER CURRENT HORT CIRCUIT VER VOLTAGE VER TEMPERATURE ORKING TEMP. ORKING HUMIDITY FORAGE TEMP., HUMIDITY EMP. COEFFICIENT BRATION AFETY STANDARDS ITHSTAND VOLTAGE OLATION RESISTANCE MC EMISSION MC IMMUNITY TBF MENSION ACKING . All parameters NOT special | STUP TIME 3000ms / 230VAC | STUP TIME 3000ms / 230VAC 5000ms / 115V | ### STANDARDS Course Cou | ### STUP TIME 3000ms / 230VAC 5000ms / 115VAC at full load | ### STUP TIME 3000ms / 230VAC 5000ms / 115VAC at full load | SOURCE SOURCE | | | | | |

- 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.
- Total and a limitude set up total regulation and total regulation.
 Derating may be needed under low input voltage. Please check the static characteristics for more details.
 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.





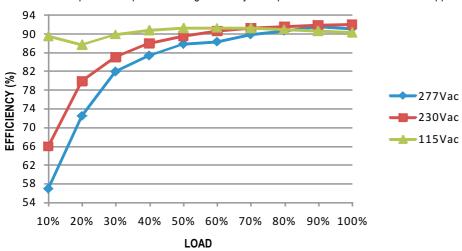


■ Power Factor Characteristic



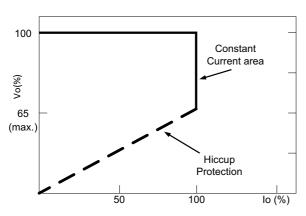
■ EFFICIENCY vs LOAD (48V Model)

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