



Features:

- Constant current design
- Wide input range 180~480VAC
- · Built-in active PFC function
- High efficiency up to 91%
- Protections: Short circuit / Over voltage / Over temperature
- · Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Three in one dimming function (0~10Vdc or 10V PWM signal or resistance)
- Suitable for LED lighting and street lighting applications
- · Compliance to worldwide safety regulations for lighting
- · Suitable for dry / damp / wet locations
- 5 years warranty (Note.6)



HVGC-100-350 A : IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

B: IP67 rated. Constant current level adjustable through output cable with 0~10Vdc or 10V PWM signal or resistance.

D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

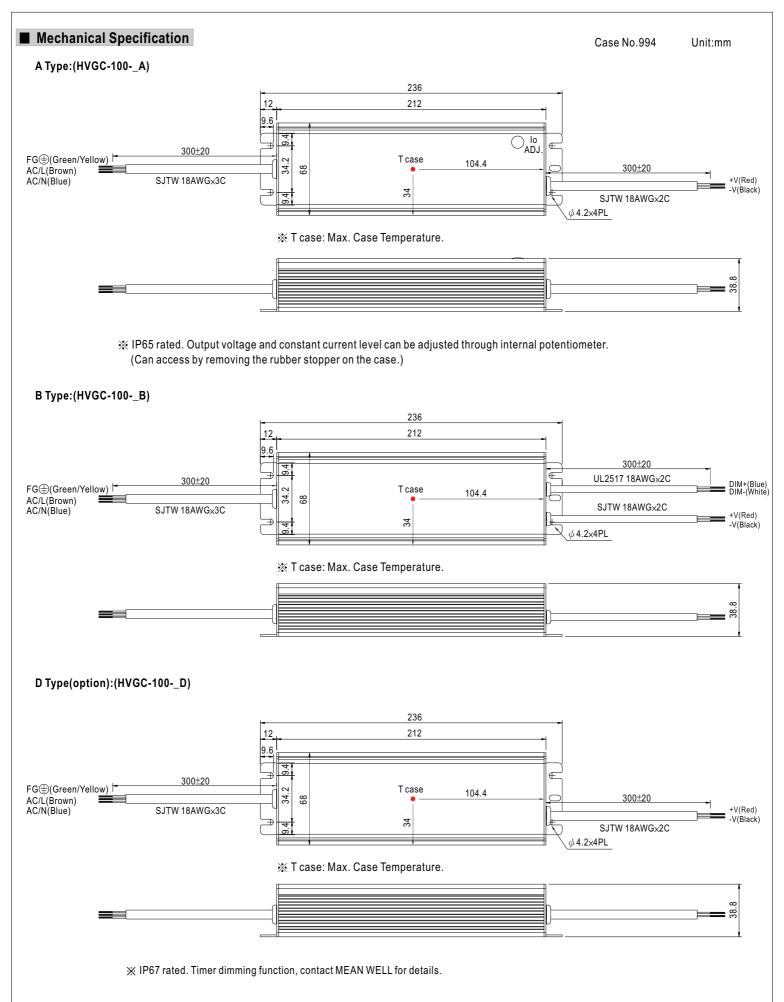
SPECIFICATION

| MODEL | | HVGC-100-350 | HVGC-100-700 | | | | | | |
|-------------|--|---|---------------------------------------|--|--|--|--|--|--|
| | RATED CURRENT | 350mA | 700mA | | | | | | |
| | CURRENT ACCURACY | ±5.0% | | | | | | | |
| | MAX. OUTPUT VOLTAGE | 3 ~ 285V | 3 ~ 142V | | | | | | |
| | RATED POWER | 99.75W | 99.4W | | | | | | |
| OUTPUT | RIPPLE & NOISE (max.) Note.2 | 1Vp-p | 0.5Vp-p | | | | | | |
| | CURRENT ADJ. RANGE | Can be adjusted by internal potentiometer or through output cable | | | | | | | |
| | CURRENT ADJ. RANGE | 210 ~ 350mA | 420 ~ 700mA | | | | | | |
| | SETUP, RISE TIME | 3000ms, 150ms at full load 440VAC / 347VAC; B type 5000m | is, 150ms at 95% load 440VAC / 347VAC | | | | | | |
| | HOLD UP TIME (Typ.) | 30ms at full load 440VAC / 347VAC | | | | | | | |
| | VOLTAGE RANGE Note.3 | 180 ~ 480VAC 254VDC ~ 679VDC | 180 ~ 480VAC 254VDC ~ 679VDC | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | |
| | POWER FACTOR (Typ.) | PF≥0.98/230VAC, PF≥0.98/277VAC, PF≥0.97/347VAC, PF≥0.94/440VAC at full load (Please refer to "Power Factor Characteristic" curve) | | | | | | | |
| INPUT | EFFICIENCY (Typ.) | 91% | 91% | | | | | | |
| | AC CURRENT (Typ.) | 0.32A / 347VAC 0.26A / 440VAC | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 50A / 440VAC | | | | | | | |
| | LEAKAGE CURRENT | <0.75mA / 440VAC | | | | | | | |
| | SHORT CIRCUIT | Constant current limiting, recovers automatically after fault condition is removed | | | | | | | |
| | OVERVOLTACE | 300 ~ 320V | 150 ~ 160V | | | | | | |
| PROTECTION | OVER VOLTAGE | Protection type : Shut down o/p voltage with auto-recovery or r | e-power on to recovery | | | | | | |
| | OVER TEMPERATURE | 100°C ±10°C (RTH2) | | | | | | | |
| | | Protection type : Shut down o/p voltage, recovers automatically | y after temperature goes down | | | | | | |
| | WORKING TEMP. | -40 ~ +70°C (Refer to "Derating Curve") | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | | | |
| ENVIRONMENT | 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 STANDARDS Note.4 | UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved | | | | | | | |
| SAFETY & | WITHSTAND VOLTAGE | I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC | | | | | | | |
| EMC | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH | | | | | | | |
| LINIC | EMC EMISSION | Compliance to EN55015, EN61000-3-2 Class C (≥50% load) ; EN61000-3-3, FCC part 15 class B | | | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry | y level (surge 4KV), criteria A | | | | | | |
| | MTBF | 186.1Khrs min. MIL-HDBK-217F (25°C) | | | | | | | |
| OTHERS | DIMENSION | 236*68*38.8 mm (L*W*H) | | | | | | | |
| | PACKING | 1.18Kg; 12pcs/15.2Kg/0.74CUFT | | | | | | | |
| NOTE | Ripple & noise are measure Derating may be needed ur | arameters NOT specially mentioned are measured at 347VAC input, rated load and 25°C of ambient temperature. lle & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 2.2uf parallel capacitor. ting may be needed under low input voltages. Please check the static characteristics for more details. ty and EMC design refer to EN60598-1, CNS15233, GB7000.1. | | | | | | | |

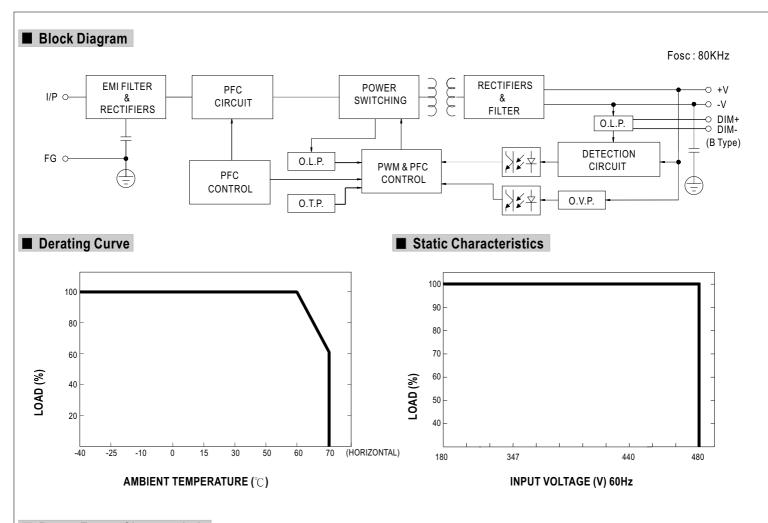
- Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1.
- 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

6. Refer to warranty statement.

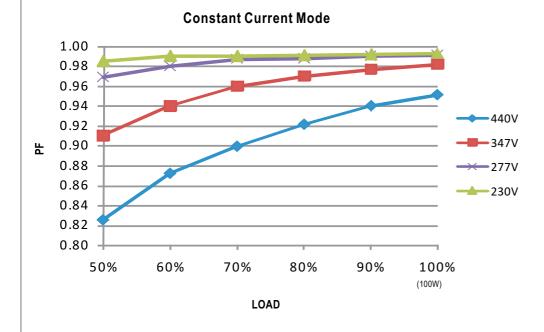








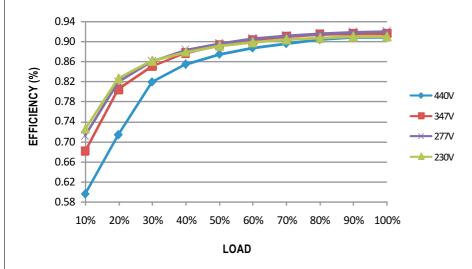
■ Power Factor Characteristic





■ EFFICIENCY vs LOAD (HVGC-100-700 Model)

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

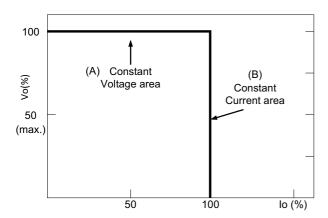


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

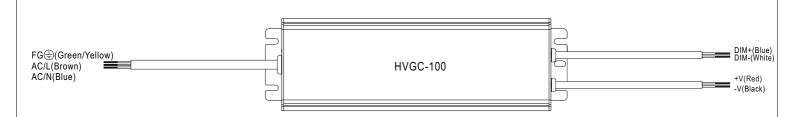
Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve



■ DIMMING OPERATION



- Built-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistance or 0 ~ 10V dc or 10V PWM signal between DIM+ and DIM-.
- ※ Please DO NOT connect "DIM-" to "-V".
- X Reference resistance value for output current adjustment (Typical)

| Resistance | Single driver | 10K Ω | 20K Ω | 30K Ω | 40K Ω | 50K Ω | 60K Ω | 70K Ω | 80K Ω | 90ΚΩ | 100K Ω | OPEN |
|------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|---------------|-----------|
| value | Multiple drivers (N=driver quantity for synchronized dimming operation) | 10KΩ/N | 20K Ω/N | 30KΩ/N | 40KΩ/N | 50KΩ/N | 60KΩ/N | 70KΩ/N | 80KΩ/N | 90KΩ/N | 100KΩ/N | |
| Percentage | e of rated current | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 102%~108% |

※ 0 ~ 10V dimming function for output current adjustment (Typical)

| Dimming value | 0V | 1V | 2V | 3V | 4V | 5V | 6V | 7V | 8V | 9V | 10V | OPEN |
|-----------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------|
| Percentage of rated current | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 102%~108% |

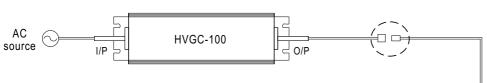
* 10V PWM signal for output current adjustment (Typical): Frequency range: 100Hz ~ 3KHz

| Duty value | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | OPEN |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------|
| Percentage of rated current | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 102%~108% |

■ WATERPROOF CONNECTION

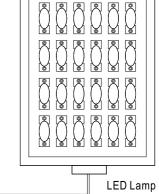
Waterproof connector

Waterproof connector can be assembled on the output cable of HVGC-100 to operate in dry/wet/damp or outdoor environment.



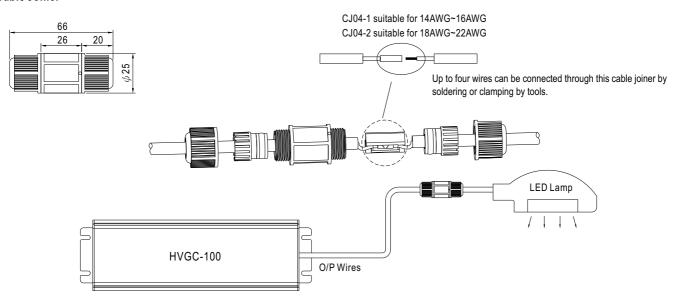
| Size | Pin Configuration (Female) | | | | | |
|------------------|----------------------------|----------|--|--|--|--|
| M12 | 00 | 000 | | | | |
| IVI I Z | 4-PIN | 5-PIN | | | | |
| | 5A/PIN | 5A/PIN | | | | |
| Order No. | M12-04 | M12-05 | | | | |
| Suitable Current | 10A max. | 10A max. | | | | |

| Size | Pin Configuration (Female) | | | | | |
|------------------|----------------------------|--|--|--|--|--|
| M15 | 00 | | | | | |
| IVI I O | 2-PIN | | | | | |
| | 12A/PIN | | | | | |
| Order No. | M15-02 | | | | | |
| Suitable Current | 12A max. | | | | | |









O Junction Box(Option)

