



Наличие и актуальные цены на

HLG-320H-C2800AB

<https://www.mean-well.ru/store/HLG-320H-C2800AB/>



(for DA-Type only)



IP65 IP67



Features

- Constant Current mode output
- Metal housing with Class I design
- Built-in active PFC function
- IP67 / IP65 design for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime>62000 hours
- 7 years warranty

Applications

- LED street lighting
- LED fishing lamp
- LED harbor lighting
- LED building architectural lighting
- LED greenhouse lighting
- LED bay lighting
- Type "HL" for use in Class I , Division 2 hazardous (Classified) location.

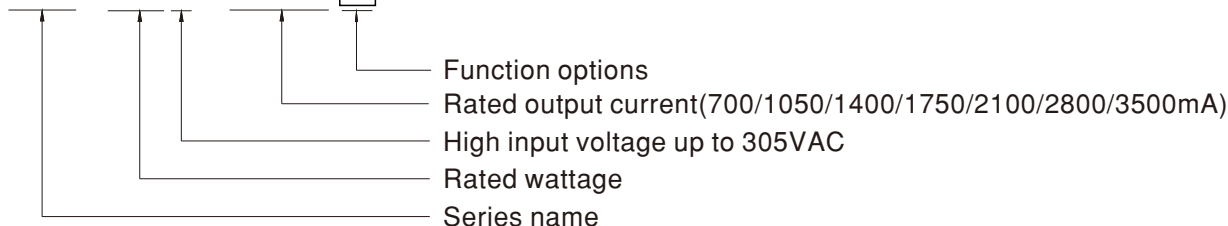
GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

Description

HLG-320H-C series is a 320W LED AC/DC LED driver featuring the constant current mode and high voltage output. HLG-320H-C operates from 90~305VAC and offers models with different rated current ranging between 700mA and 3500mA. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for -40°C ~ +85°C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-320H-C is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding

HLG - 320H - C1050 A


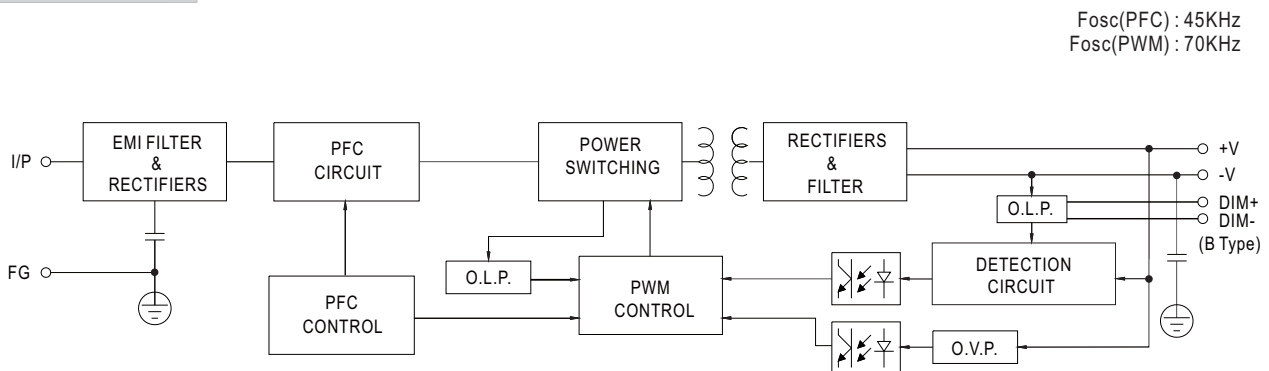
| Type | IP Level | Function | Note |
|------|----------|---|------------|
| A | IP65 | Io adjustable through built-in potentiometer. | In Stock |
| B | IP67 | 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance) | In Stock |
| DA | IP67 | DALI control technology. | In Stock |
| AB | IP65 | Io adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance) | In Stock |
| Dx | IP67 | Built-in Smart timer dimming function by user request. | By request |
| D2 | IP67 | Built-in Smart timer dimming and programmable function. | In Stock |



SPECIFICATION

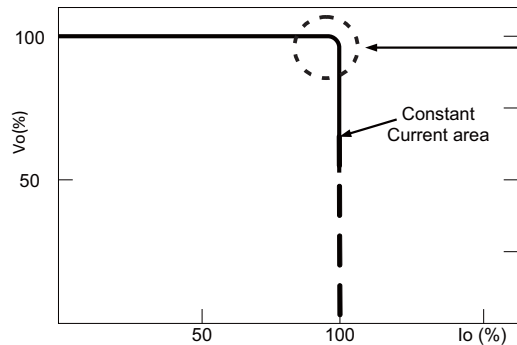
| MODEL | | HLG-320H-C700 | HLG-320H-C1050 | HLG-320H-C1400 | HLG-320H-C1750 | HLG-320H-C2100 | HLG-320H-C2800 | HLG-320H-C3500 | |
|----------------------|--|--|---|---|----------------|----------------|----------------|----------------|-----------|
| OUTPUT | RATED CURRENT | 700mA | 1050mA | 1400mA | 1750mA | 2100mA | 2800mA | 3500mA | |
| | RATED POWER | 299.6W | 320.25W | 320.6W | 320.25W | 319.2W | 319.2W | 318.5W | |
| | CONSTANT CURRENT REGION <small>Note.2</small> | 214 ~ 428V | 152 ~ 305V | 114 ~ 229V | 91 ~ 183V | 76 ~ 152V | 57 ~ 114V | 46 ~ 91V | |
| | OPEN CIRCUIT VOLTAGE (max.) | 435V | 311V | 234V | 187V | 156V | 118V | 95V | |
| | CURRENT ADJ. RANGE | Adjustable for A/AB-Type only (via built-in potentiometer) | | | | | | | |
| | | 350 ~ 700mA | 525 ~ 1050mA | 700 ~ 1400mA | 875 ~ 1750mA | 1050 ~ 2100mA | 1400 ~ 2800mA | 1750 ~ 3500mA | |
| | CURRENT RIPPLE | 5.0% max. @rated current | | | | | | | |
| | CURRENT TOLERANCE | ±5% | | | | | | | |
| SET UP TIME | <small>Note.4</small> | 1000ms/115VAC, or 500ms/230VAC | | | | | | | |
| INPUT | VOLTAGE RANGE | <small>Note.3</small> | 90 ~ 305VAC 127~417VDC (Please refer to "STATIC CHARACTERISTIC" section) | | | | | | |
| | FREQUENCY RANGE | | 47 ~ 63Hz | | | | | | |
| | POWER FACTOR (Typ.) | | PF ≥ 0.98/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92/277VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) | | | | | | |
| | TOTAL HARMONIC DISTORTION | | THD < 20% (@ load ≥ 50% /115VAC, 230VAC; @ load ≥ 70%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section) | | | | | | |
| | EFFICIENCY (Typ.) | | 94% | 94% | 94% | 94% | 94% | 94% | |
| | AC CURRENT (Typ.) | | 3.5A / 115VAC | 1.65A / 230VAC | 1.45A / 277VAC | | | | |
| | INRUSH CURRENT(Typ.) | | COLD START 70A(<small>twidth=1200μs</small> measured at 50% Ipeak) at 230VAC; Per NEMA 410 | | | | | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | | 2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC | | | | | | |
| | LEAKAGE CURRENT | | <0.75mA / 277VAC | | | | | | |
| PROTECTION | SHORT CIRCUIT | | Constant current limiting, recovers automatically after fault condition is removed | | | | | | |
| | OVER VOLTAGE | | 436 ~ 460V | 320 ~ 352V | 235 ~ 252V | 192 ~ 211V | 160 ~ 175V | 120 ~ 132V | 96 ~ 105V |
| | | | Shut down and latch off o/p voltage, re-power on to recover | | | | | | |
| | OVER TEMPERATURE | | Shut down and latch off o/p voltage, re-power on to recover | | | | | | |
| ENVIRONMENT | WORKING TEMP. | | Tcase=-40 ~ +85℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) | | | | | | |
| | MAX. CASE TEMP. | | Tcase=+85℃ | | | | | | |
| | WORKING HUMIDITY | | 20 ~ 95% RH non-condensing | | | | | | |
| | STORAGE TEMP., HUMIDITY | | -40 ~ +80℃, 10 ~ 95% RH | | | | | | |
| | TEMP. COEFFICIENT | | ±0.03%/℃ (0 ~ 50℃) | | | | | | |
| | VIBRATION | | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | | |
| | SAFETY & EMC | SAFETY STANDARDS | | UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent; GB19510.1,GB19510.14,EAC TP TC 004, IP65 or IP67 approved | | | | | |
| DALI STANDARDS | | | Compliance to IEC62386-101,102,(207 by request) for DA Type only | | | | | | |
| WITHSTAND VOLTAGE | | | I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC | | | | | | |
| ISOLATION RESISTANCE | | | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH | | | | | | |
| EMC EMISSION | | | Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load ≥ 50%) ; BS EN/EN61000-3-3,GB/T 17743 , GB17625.1,EAC TP TC 020 | | | | | | |
| EMC IMMUNITY | | | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020 | | | | | | |
| OTHERS | MTBF | | 1847.6K hrs min. Telcordia SR-332 (Bellcore) ; 182.3K hrs min. MIL-HDBK-217F (25℃) | | | | | | |
| | DIMENSION | | 252*90*43.8mm (L*W*H) | | | | | | |
| | PACKING | | 1.88Kg; 8pcs/16Kg/0.92CUFT | | | | | | |
| NOTE | <div>1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.</div> <div>2. Please refer to "DRIVING METHODS OF LED MODULE".</div> <div>3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</div> <div>4. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.</div> <div>5. The driver 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. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)</div> <div>6. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.</div> <div>7. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (C) point (or TMP, per DLC), is about 75℃ or less.</div> <div>8. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</div> <div>9. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).</div> <div>10. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf</div> <div>11. For A/AB type need to consider build in using to comply with Type HL application.</div> <div>※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</div> | | | | | | | | |

BLOCK DIAGRAM



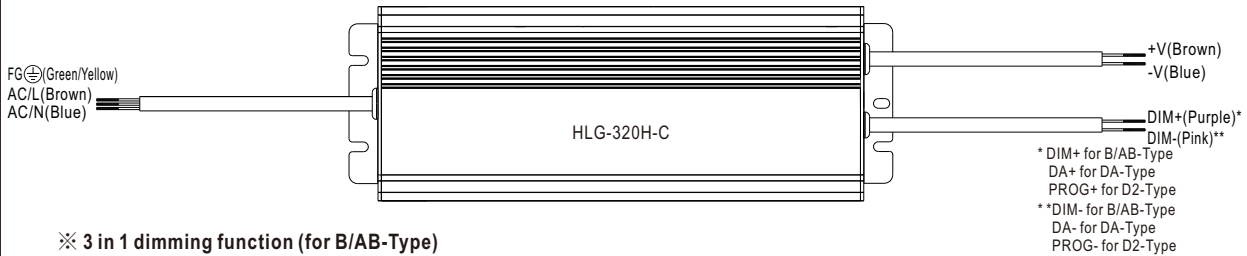
DRIVING METHODS OF LED MODULE

※ This series works in constant current mode to directly drive the LEDs.



In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.
Should there be any compatibility issues, please contact MEAN WELL.

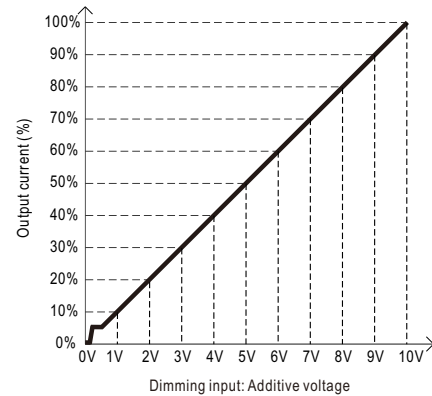
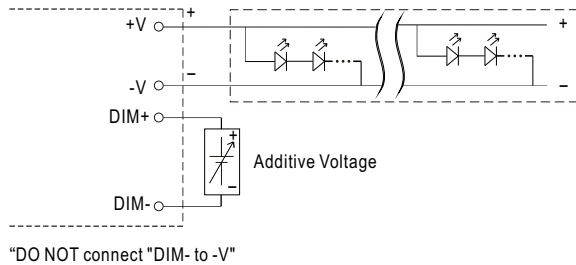
DIMMING OPERATION



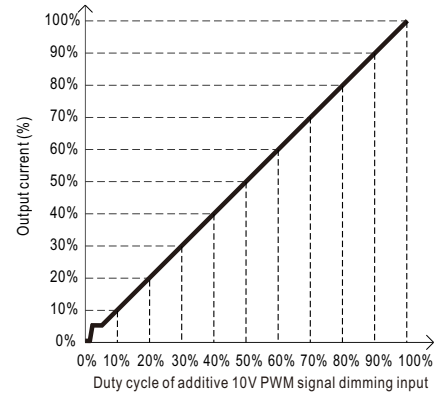
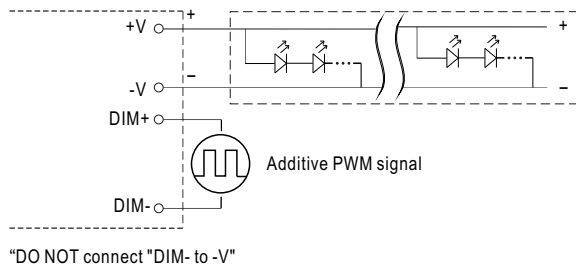
※ 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100 μ A (typ.)

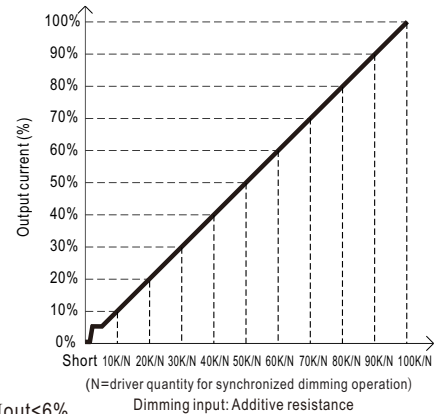
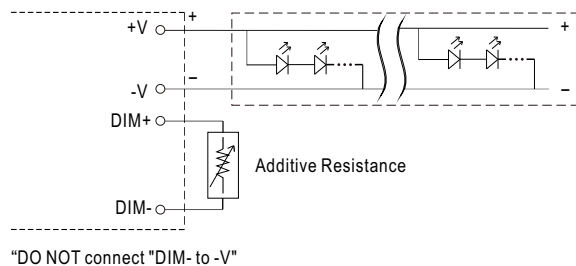
◎ Applying additive 0 ~ 10VDC



◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



◎ Applying additive resistance:



Note : 1. Min. dimming level is about 6% and the output current is not defined when 0% < I_{out} < 6%.

2. The output current could drop down to 0% when dimming input is about 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.

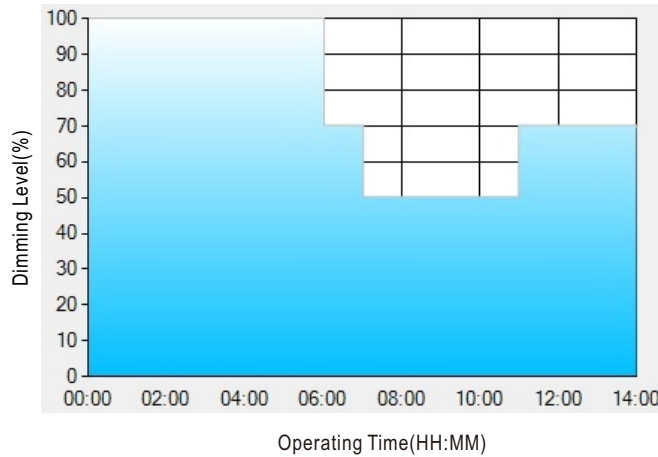
※ DALI Interface (primary side; for DA-Type)

- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output. Please contact MEAN WELL for other setup.

※ Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex : ☉ D01-Type: the profile recommended for residential lighting



Set up for D01-Type in Smart timer dimming software program:

| | T1 | T2 | T3 | T4 |
|---------|-------|-------|-------|-----|
| TIME** | 06:00 | 07:00 | 11:00 | --- |
| LEVEL** | 100% | 70% | 50% | 70% |

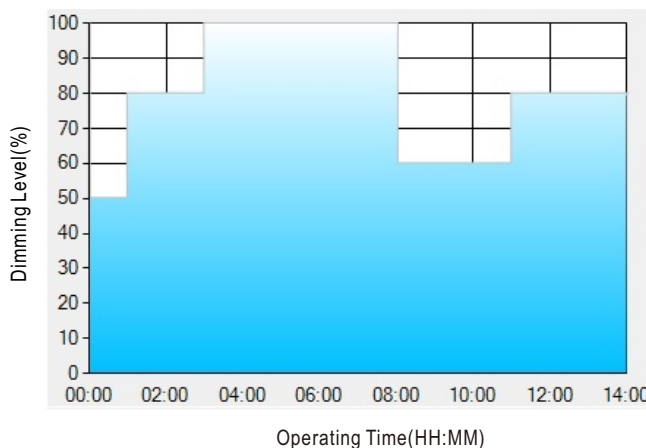
** : TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:

- [1] The power supply will switch to the constant current level at 100% starting from 6:00pm.
- [2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex : ☉ D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program:

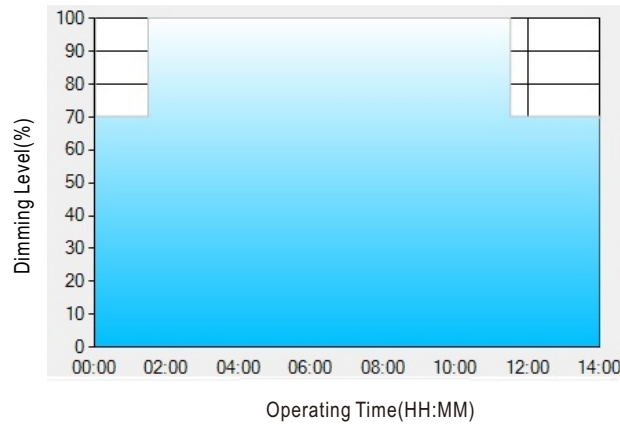
| | T1 | T2 | T3 | T4 | T5 |
|---------|-------|-------|------|-------|-----|
| TIME** | 01:00 | 03:00 | 8:00 | 11:00 | --- |
| LEVEL** | 50% | 80% | 100% | 60% | 80% |

** : TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:

- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.
- [5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.

Ex: © D03-Type: the profile recommended for tunnel lighting



Set up for D03-Type in Smart timer dimming software program:

| | T1 | T2 | T3 |
|---------|-------|-------|-----|
| TIME** | 01:30 | 11:00 | --- |
| LEVEL** | 70% | 100% | 70% |

** : TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

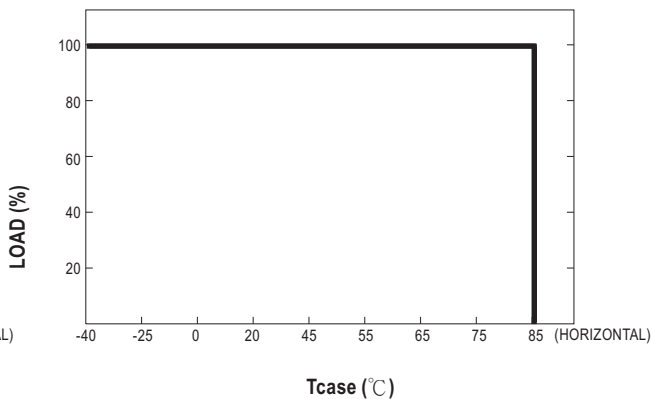
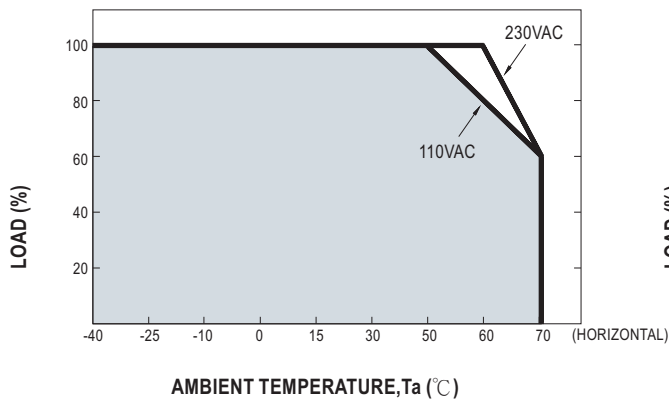
[1] The power supply will switch to the constant current level at 70% starting from 4:30pm.

[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.

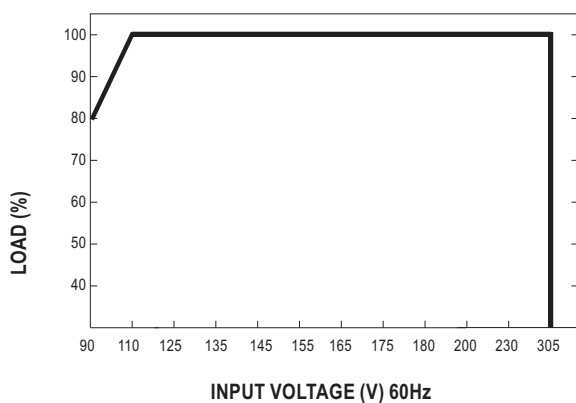
[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.

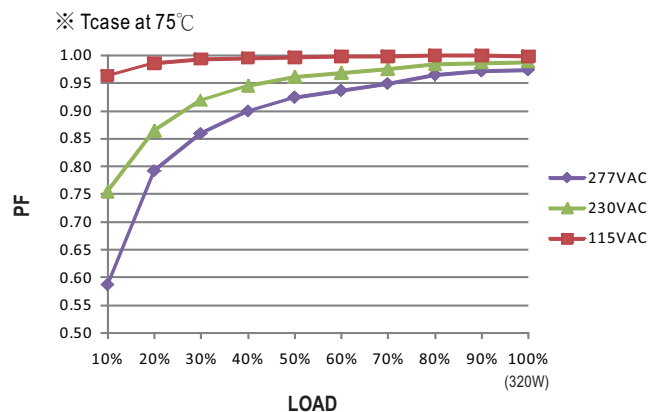
■ OUTPUT LOAD vs TEMPERATURE(Note.8)



■ STATIC CHARACTERISTIC

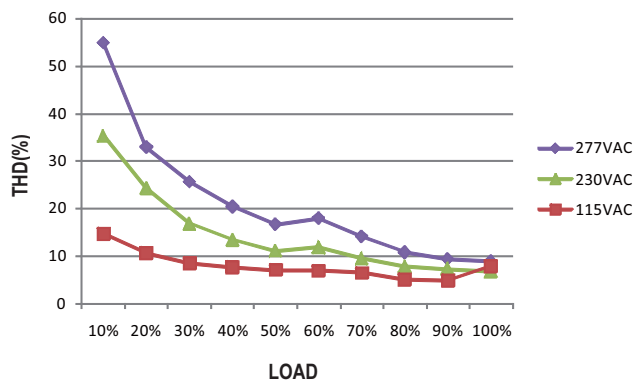


■ POWER FACTOR (PF) CHARACTERISTIC



■ TOTAL HARMONIC DISTORTION (THD)

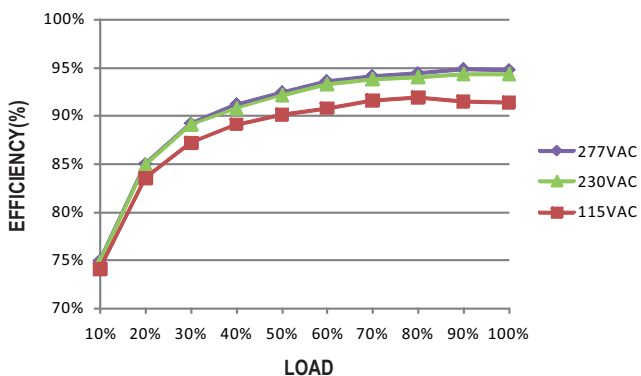
※ 1050mA Model, T_{case} at 75°C



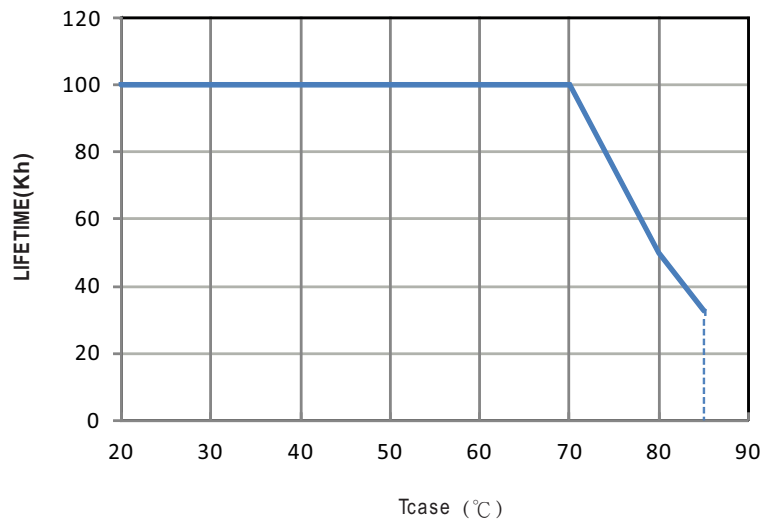
■ EFFICIENCY vs LOAD

HLG-320H-C series possess superior working efficiency that up to 94% can be reached in field applications.

※ 1050mA Model, T_{case} at 75°C



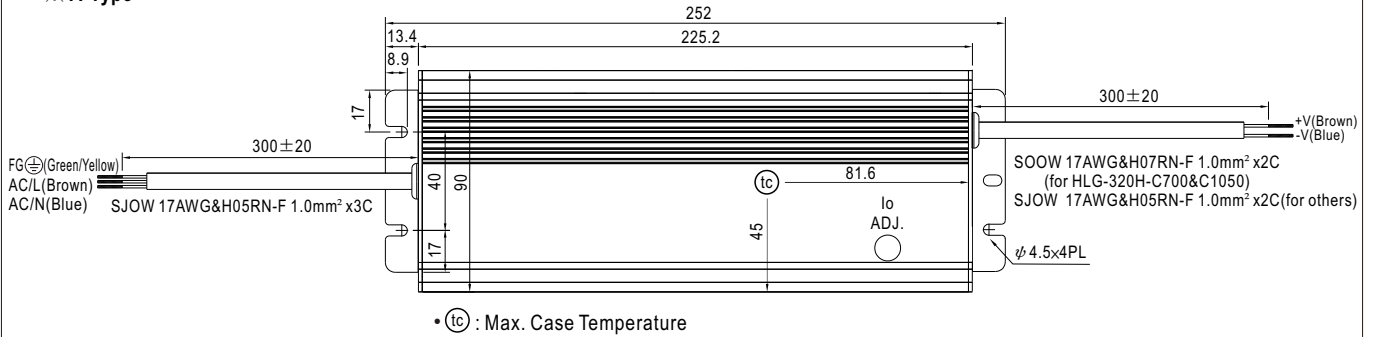
■ LIFE TIME



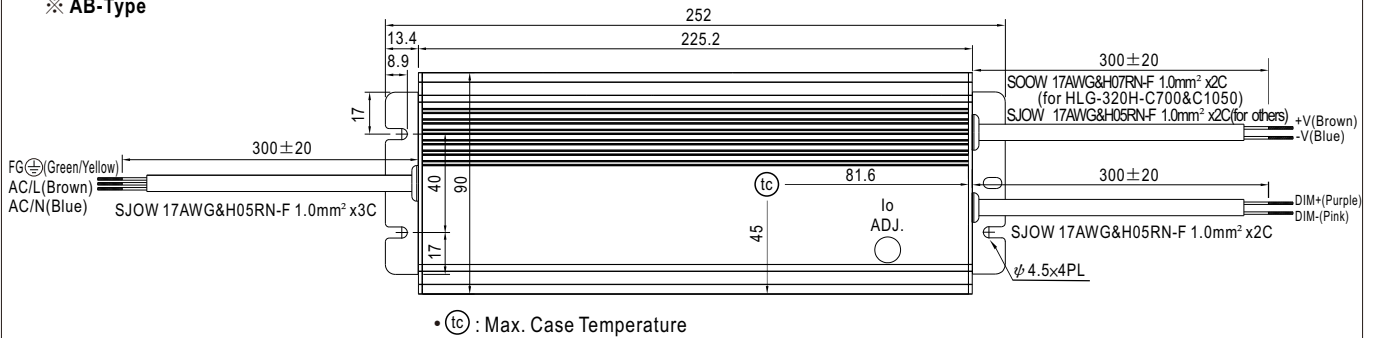
MECHANICAL SPECIFICATION

Case No.228 Unit:mm Tolerance:±1

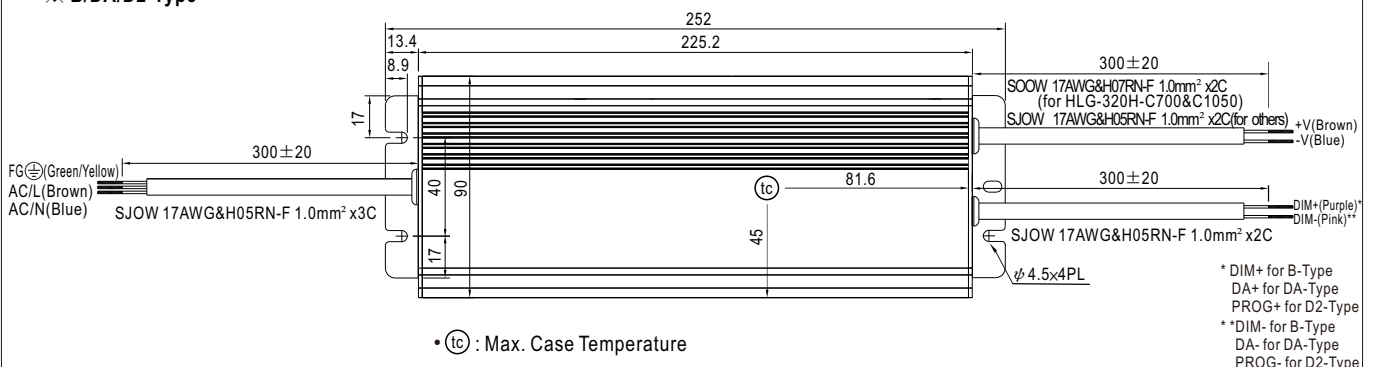
※ A-Type



※ AB-Type



※ B/DA/D2-Type



INSTALLATION MANUAL

Please refer to: <http://www.meanwell.com/manual.html>