





#### **■** Features

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

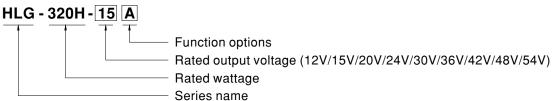
# Applications

- · LED street lighting
- · LED high-bay lighting
- · Parking space lighting
- LED fishing lamp
- · LED greenhouse lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

### Description

HLG-320H series is a 320W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-320H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for -40  $^{\circ}$ C ~ +90  $^{\circ}$ 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 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

# ■ Model Encoding



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
Α	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
С		Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request





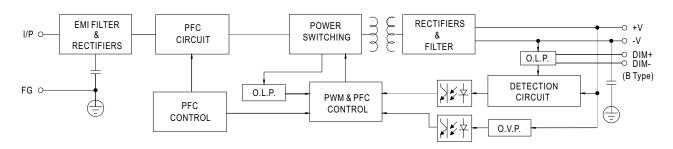
### **SPECIFICATION**

DC VOLTAGE   12V   15V   20V   24V   30V   36V   42V   42V   48V   54V   54V   64V   64	MODEL		HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54		
RATED CURRENT   2A		DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V		
NATED POWER   264W   265W   265W   261W   270W   220W   220W   22 0 20W   25 0 30W   2		CONSTANT CURRENT REGION Note.4	6 ~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V		
NATED POWER   264W   265W   280W   300W   300   100W   270W   220W   2250W/pc   250W/pc   250W		RATED CURRENT	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A		
VOLTAGE ADJ. RANGE		RATED POWER	264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W		
VOLTAGE ADJ. RANGE		RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
OUTPUTE		, ,											
CURRENT ADJ. RANGE		VOLTAGE ADJ. RANGE						32 ~ 39V	38 ~ 45V	43 ~ 52V	49 ~ 58V		
CURRENT ADJ. NAMSE   11-2A   9.5-19A   7.5-19A   8.67-1334A   5.5-107A   4.55-80A   3.8-7.65A   3.55-67A   297-54	OUTPUT												
VOLTAGE TOLERANCE Social 3 ± 3.0%		CURRENT ADJ. RANGE						4.45 ~ 8.9A	3.8 ~ 7.65A	3.35 ~ 6.7A	2.97 ~ 5.95A		
LINE REGULATION		VOLTAGE TOLERANCE Note.3											
LOAD REGULATION   2.20%							±0.5%	±0.5%	±0.5%				
SETUR_RISE_TIME							±0.5%						
HOLD UP TIME (Typ.)   58m. / 115VAC, 230VAC   90 - 395VAC   127 - 431VDC   (Please refer to "STATIC CHARACTERISTIC" section)		SETUP, RISE TIME Note,6	2500ms.80m		500ms.80ms/2	30VAC	1						
VOLTAGE RANGE   Note   3 - 305 NAC   127 - 431 VDC   (Please refer to "STATIC CHARACTERISTIC" section)													
VOLTAGE RANGE   Note, 5   (Please refer to "STATIC CHARACTERISTIC" section)													
FREQUENCY RANGE		VOLTAGE RANGE Note.5											
POWER FACTOR (Typ.)		FREQUENCY RANGE											
NPUTA   POWER FACTOR (Typ.)   Pipease refer to "POWER FACTOR (FP) CHARACTERISTIC" section)     Third 20% (and 250% 115VAC 230VAC; @ load 275% 127VAC)     Third 20% (and 250% 115VAC 230VAC; @ load 275% 127VAC)													
NPUT   FIFC   20% (@		POWER FACTOR (Typ.)											
INPUT													
EFFICIENCY (Typ.) (230Vac)   91%   92.5%   93.5%   94%   94%   94.5%   95.5%   95%		TOTAL HARMONIC DISTORTION		_		_		- /					
EFFICIENCY (Typ.) (277Vac)   91.5%   93%   94%   94.5%   94.5%   95%	INPUT	EFFICIENCY (Tvp.) (230Vac)	`			· · ·		94 5%	95%	95%	95%		
AC CURRENT (Typ.) INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT Volve Ver Volva Ver Volva Shott circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC Ver Volva Ver Current Ver Volva Ver Volva Ver Volva Ver Volva Ver Volva Ver Volva Shott circuit Vir Volve Ver Volva Ver Volva Ver Volva Ver Volva Shott down and latch off ofp voltage, re-power on to recover Volva Vorking Temp  MAX. CasE TEMP. Volva Ver Volva V													
NRUSH CURRENT(Typ.)   COLD START 70A(twith=1010):s measured at 50% (speak) at 230VAC. Per NEMA 410								3070	0070	1 00 70	1 00 70		
MAX. No. of PSUs on 16A CIRCUIT BREAKER   LEAKAGE CURRENT   Author (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC								JEMA 410					
CIRCUIT BREAKER   1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC		( • • • •	0025 017 111	7.07 ((	0,30 1110000100	at oo to spount at	2001110, 1011						
PROTECTION  PROTECTION  SHORT CIRCUIT  Hiccup mode, recovers automatically after fault condition is removed  Hiccup mode, recovers automatically after fault condition is removed  14 - 17V   17.5 - 21V   22.5 - 22V   27 - 33V   33 - 37V   40 - 46V   46.5 - 53V   53.5 - 60V   59 - 65V    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  WORKING TEMP.  Tcase= -40 - +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)  MAX. CASE TEMP.  TCase= -40 - +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)  MAX. GASE TEMP.  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, 56 12min/Incycle, period for 72min. each along X, Y, Z axes  WITHSTAND VOLTAGE  WITHSTAND VOLTAGE  I/P-0/P: 3.75KVAC   I/P-62 X/LOA   O/P-F6-1.5KVAC  BOALTION RESISTANCE  I/P-0/P: 3.75KVAC   I/P-62 X/LOA   O/P-F6-1.5KVAC  EMC EMISSION  Compliance to ENS5015, ENS5032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥ 50%); EN61000-3-3, EN61000-3-3, EN61000-3-3, EN61000-3-3, EN61000-3-2, S25°0+43.8mm (I.W*H)  PACKING  1.88Kg. Spcs/16kg/0.92CUFT  A MTBF  157.1K hrs min. MIL-HDBK-217F (25°C)  DIMENSION  252°0+43.8mm (I.W*H)  PACKING  1.88Kg. Spcs/16kg/0.92CUFT  3. Tolerance: includes set up tolerance, line regulation and load regulation.  4. Please refer to "DRIVING METHODS OF LED MCDULE."  5. De-rating may be needed under low input voltage, Please refer to "STATIC CHAPACTERISTIC" sections for details.  6. Length of set up time is measured at first cold start. Turning ONOFF the driver may lead to increase of the set up time.  7. 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 that will be operated in combination on whole Tcase, particularly @ point (or TMP, per DLC), is about 75°C or less.			1 unit (circuit	breaker of type	e B) / 2 units (c	circuit breaker o	of type C) at 23	0VAC					
PROTECTION  SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed    14-17V   17.5-21V   22.5-27V   27-33V   33-37V   40-46V   46.5-53V   53.5-60V   59-65V		LEAKAGE CURRENT	<0.75mA / 277VAC										
PROTECTION  SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed    14 - 17   17.5 - 21   22.5 - 27   27 - 33   33 - 37   40 - 46   46.5 - 53   53.5 - 60   59 - 65			95 ~ 108%										
PROTECTION  SHORT CIRCUIT  Hiccup mode, recovers automatically after fault condition is removed  14 - 17V    17.5 - 21V   22.5 - 27V   27 - 33V   33 - 37V   40 - 46V   46.5 - 53V   53.5 - 60V   59 - 65V   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  WORKING TEMP.  MAX. CASE TEMP.  TCASSE - 490 \(^{\cup 0}\)  TCASSE - 490 \(^{\cup 0}\)  TO 95% RH non-condensing  STORAGE TEMP, HUMIDITY  40 - 480°C, 10 - 596% RH  TEMP. COEFFICIENT  10 - 500Mc, 50 C 22.2 No. 250.0-09; ENEC EN61347-1, EN61347-2-13, EN62384 independent; GB19510.1, GB19510.1  FBMT STORAGE TEMP, HUMIDITY  10 - 500Mc, 50 C 22.2 No. 250.0-09; ENEC EN61347-1, EN61347-2-13, EN62384 independent; GB19510.1, GB19510.1  FBMT STANDARDS  PROF (except for HLG-320H C-type); JB1347-1, JB1347-2-13 (except for HLG-320H C-type) approved  WITHSTAND VOLTAGE  WITHSTAND VOLTAGE  I/P-0/P; I/P-FG; Z/KVAC    I/P-FG:2KVAC    0/P-FG:1.5KVAC     EMC EMISSION  Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥50%); EN61000-3-3, EN61000-3-3, GB17743 and GB17625.1  EMC IMMUNITY  Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥50%); EN61000-3-3, EN61000-3-3, GB17743 and GB17625.1  EMC IMMUNITY  Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥50%); EN61000-3-3, EN61000-3-3, GB17743 and GB17625.1  EMC IMMUNITY  Compliance to EN561000-42,3,4,5,8,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 DIMENSION    252*90*43.8mm (L*W*H)  PACKING  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.  2. Ripple & noise are measured at 20McHz 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. Please refer to *DRIVING METHODS OF LED MODULE*.  5. Devertating may be needed under low i		OVER CURRENT Note.4											
A = 17V   17.5 - 21V   22.5 - 27V   27 - 33V   33 - 37V   40 - 46V   46.5 - 53V   53.5 - 60V   59 - 65V		SHORT CIRCUIT	·										
SNut down and laten off o/p voltage, re-power on to recover  WORKING TEMP. Tcase= -40 - +90°C (Please refer to *OUTPUT LOAD vs TEMPERATURE" section)  MAX. CASE TEMP. Tcase= +40 - +90°C (Please refer to *OUTPUT LOAD vs TEMPERATURE" section)  MAX. CASE TEMP. Tcase= +90°C  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, 56 12min./1cycle, period for 72min. each along X, Y, Z axes  WITHSTAND VOLTAGE 1/P-6 (Ple7 (except for HLG-320H C-type); J61347-1, J61347-2-13, EN62384 independent; GB19510.1, GB19510.1  P65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2-13 (except for HLG-320H C-type) approved  WITHSTAND VOLTAGE 1/P-O/P; J7-FG; 2/KVAC 0/P-FG; 1.5KVAC  EMC EMISSION Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥ 50%); EN61000-3-3, GB17743 and GB17625.  EMC IMMUNITY Compliance to EN61000-4-2,3.4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 (BHT) (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	PROTECTION							40 ~ 46V	46.5 ~ 53V	53.5 ~ 60V	59 ~ 65V		
WORKING TEMP.   Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			Shut down an	d latch off o/p	voltage, re-pov	ver on to recov	er		•		•		
HAX. CASE TEMP. Tcase=+90°C  WORKING HUMIDITY 20 ~ 95% RH non-condensing  STORAGE TEMP., HUMIDITY 40 ~ +80°C, 10 ~ 95% RH  TEMP. COFFICIENT ±0.03%/°C (0 ~ 50°C)  VIBRATION 10 ~ 500Hz, 5G 12min/1cycle, period for 72min. each along X, Y, Z axes  WITHSTANDARDS UL8750(type*HL*), CSA C22.2 No. 250.0-08; ENEC EN61347-1, EN61347-2-13, EN62384 independent; GB19510.1, IP65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2-13 (except for HLG-320H C-type) approved  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°C / 70% RH  EMC EMISSION Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load≥50%); EN61000-3-3, GB17743 and GB17625.1  EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 MTBF 157.1K hrs min. MIL-HDBK-217F (25°C)  MTBF 157.1K hrs min. MIL-HDBK-217F (25°C)  MIDMENSION 252*90*43.8mm (L*W*H)  PACKING 1.88Kg: 8pcs/16kg/lo.93cUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current 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. Please refer to "DRIVING METHODS OF LED MODULE".  5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.  6. 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.  7. 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.  8. To fullill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only		OVER TEMPERATURE											
ENIRONMENT  ENVIRONMENT  ENVIR		WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU"	TPUT LOAD vs	S TEMPERATU	JRE" section)					
STORAGE TEMP., HUMIDITY    TEMP. COEFFICIENT   ±0.03%/°C (0 ~ 50°C)		MAX. CASE TEMP.	Tcase=+90°C										
STORAGE TEMP., HUMIDITY    TEMP. COEFFICIENT   ±0.03%/°C (0 ~ 50°C)     VIBRATION   10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		WORKING HUMIDITY	20 ~ 95% RH	non-condensir	ng								
VIBRATION	ENVIRONMENT		-40 ~ +80°C,	10 ~ 95% RH									
VIBRATION		TEMP. COEFFICIENT	±0.03%/℃ (	(0 ~ 50°C)									
SAFETY STANDARDS  UL8750(type"HL"), CSA C22.2 No. 250.0-08; ENEC EN61347-1, EN61347-2-13, EN62384 independent; GB19510.1, GB19510.1 IP65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2-13 (except for HLG-320H C-type) approved  WITHSTAND VOLTAGE  I/P-O/P:3.75KVAC  I/P-FG:2KVAC  O/P-FG:1.5KVAC  SOLATION RESISTANCE  I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH  EMC EMISSION  Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥ 50%); EN61000-3-3, GB17743 and GB17625.1  EMC IMMUNITY  Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2		VIBRATION			cle, period for	72min. each ald	ong X, Y, Z axe	s					
SAFETY STANDARDS  IP65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2-13 (except for HLG-320H C-type) approved  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°C / 70% RH  EMC EMISSION  Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥50%); EN61000-3-3, EN61000-3-3, GB17743 and GB17625.1  EMC IMMUNITY  Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 MTBF  OTHERS  DIMENSION  252°90°43.8mm (L*W*H)  PACKING  1.8Kg; 8pcs/16Kg/0.92CUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current 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. Please refer to "DRIVING METHODS OF LED MODULE".  5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.  6. 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.  7. 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.  8. 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.  9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (to) point (or TMP, per DLC), is about 75°C or less.		0.1 FFTV 0F	UL8750(type"HL"), CSA C22.2 No. 250.0-08; ENEC EN61347-1, EN61347-2-13, EN62384 independent; GB19510.1, GB19510.14;										
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°C / 70% RH  EMC EMISSION Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load≥50%); EN61000-3-3, EN61000-3-3, GB17743 and GB17625.1  EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2  MTBF 157.1K hrs min. MIL-HDBK-217F (25°C)  DIMENSION 252*90*43.8mm (L*W*H)  PACKING 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current 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. Please refer to "DRIVING METHODS OF LED MODULE". 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 6. 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. 7. 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. 8. 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. 9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 75°C or less.		SAFETYSTANDARDS											
SOLATION RESISTANCE   I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH	0455516	WITHSTAND VOLTAGE											
EMC EMISSION  Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥50%); EN61000-3-3, EN61000-3-3, GB17743 and GB17625.1  EMC IMMUNITY  Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 MTBF  157.1K hrs min. MIL-HDBK-217F (25°C)  DIMENSION  252*90*43.8mm (L*W*H)  PACKING  1.88Kg; 8pcs/16Kg/0.92CUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current 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. Please refer to "DRIVING METHODS OF LED MODULE". 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 6. 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. 7. 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. 8. 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. 9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (€) point (or TMP, per DLC), is about 75°C or less.			I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH										
EMC IMMUNITY  Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 MTBF  157.1K hrs min. MIL-HDBK-217F (25°C)  DIMENSION  252*90*43.8mm (L*W*H)  PACKING  1.88Kg; 8pcs/16Kg/0.92CUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current 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. Please refer to "DRIVING METHODS OF LED MODULE". 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 6. 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. 7. 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. 8. 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. 9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly to point (or TMP, per DLC), is about 75°C or less.	EMC	EMC EMISSION         Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥ 50%); EN61000-3-3,EN GB17743 and GB17625.1									000-3-3,		
MTBF  157.1K hrs min. MIL-HDBK-217F (25°C)  DIMENSION  252*90*43.8mm (L*W*H)  PACKING  1.88Kg; 8pcs/16Kg/0.92CUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current 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. Please refer to "DRIVING METHODS OF LED MODULE".  5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.  6. 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.  7. 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.  8. 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.  9. 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°C or less.													
DIMENSION  252*90*43.8mm (L*W*H)  PACKING  1.88Kg; 8pcs/16Kg/0.92CUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current 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. Please refer to "DRIVING METHODS OF LED MODULE".  5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.  6. 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.  7. 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.  8. 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.  9. 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°C or less.			•				5024, light ind	ustry level (sur	ge immunity Lir	ne-Earth 4KV, I	ine-Line 2KV)		
PACKING  1.88Kg; 8pcs/16Kg/0.92CUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current 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. Please refer to "DRIVING METHODS OF LED MODULE". 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 6. 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. 7. 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. 8. 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. 9. 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°C or less.	OTHERS				3K-217F (25°C	)							
1. All parameters NOT specially mentioned are measured at 230VAC input, rated current 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. Please refer to "DRIVING METHODS OF LED MODULE". 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 6. 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. 7. 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. 8. 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. 9. 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°C or less.				,									
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. Please refer to "DRIVING METHODS OF LED MODULE".  5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.  6. 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.  7. 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.  8. 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.  9. 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°C or less.													
<ol> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>This series meets the typical life expectancy of &gt;62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less.</li> </ol>	NOTE		-							nacitor			
<ol> <li>4. Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>6. 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.</li> <li>7. 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.</li> <li>8. 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.</li> <li>9. This series meets the typical life expectancy of &gt;62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less.</li> </ol>					•	•	e terriiriated W	nui a v. Iul & 4	7 ur parallei ca	paciloi.			
<ol> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>This series meets the typical life expectancy of &gt;62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less.</li> </ol>		,											
<ol> <li>6. 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.</li> <li>7. 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.</li> <li>8. 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.</li> <li>9. This series meets the typical life expectancy of &gt;62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less.</li> </ol>		5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.											
complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.  8. 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.  9. 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°C or less.													
<ul> <li>8. 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.</li> <li>9. This series meets the typical life expectancy of &gt;62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less.</li> </ul>		7. The driver is considered as	a component										
connected to the mains.  9. 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°C or less.			· · · · · · · · · · · · · · · · · · ·										
9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75°C or less.													
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			-	-	-	auon when ic	wo, particularly	, w point (of	vii , pei DLC	,, is about 70	UI 1699.		
File Name:HLG-320H-SPEC 2017			,		2 320110				F-1		DE0 0017.07.		



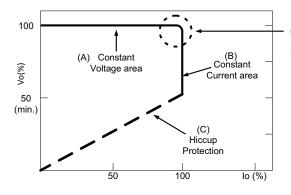
### **■** BLOCK DIAGRAM

Fosc: 65KHz



### ■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

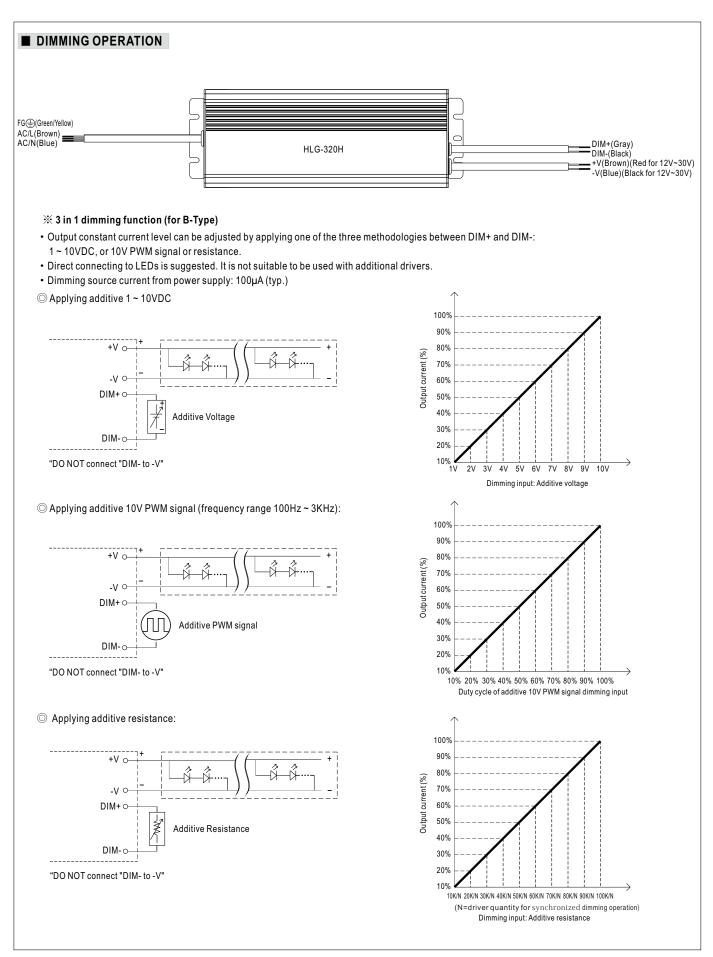


Typical output current normalized by rated current (%)

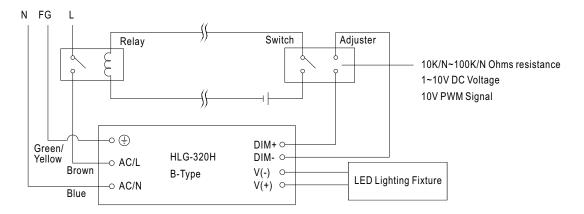
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact TRC Electronics for details.





Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact TRC Electronics for other options.



Using a switch and relay can turn ON/OFF the lighting fixture.

