





















- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- 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

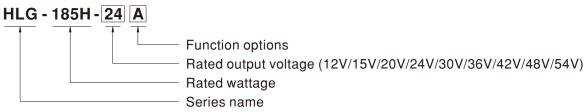
# Applications

- 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-185H series is a 185W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-185H 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  $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$  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-185H 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
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



## 185W Constant Voltage + Constant Current LED Driver

# HLG-185H series

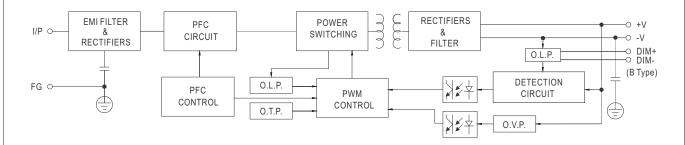
#### **SPECIFICATION**

			HLG-185H-12	HLG-185H-15	HLG-185H-20	HLG-185H-24	HLG-185H-30	HLG-185H-36	HLG-185H-42	HLG-185H-48	HLG-185H-54
	DC VOLTAGE		12V	15V	20V	24V	30V	36V	42V	48V	54V
	CONSTANT CURRENT REGION Note.4		6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V
	RATED CURRENT		13A	11.5A	9.3A	7.8A	6.2A	5.2A	4.4A	3.9A	3.45A
	RATED POWER		156W	172.5W	186W	187.2W	186W	187.2W	184.8W	187.2W	186.3W
	RIPPLE & NOISE (max.) Note.2			150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	I LE G HOIDE (Max.) Note.2		Adjustable for A/AB-Type only (via built-in potentiometer)								
ОИТРИТ	VOLTAGE ADJ. RANGE  CURRENT ADJ. RANGE  VOLTAGE TOLERANCE Note.3		10.8 ~ 13.5V	7.	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V
				r A/AB-Type or						10 001	10 001
			6.5 ~ 13A	5.75 ~ 11.5A		3.9 ~ 7.8A	3.1 ~ 6.2A	2.6 ~ 5.2A	2.2 ~ 4.4A	1.95 ~ 3.9A	1.72 ~ 3.45
				±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION		±0.5%	±0.5%	±0.5%	±0.5%	± 0.5%	± 0.5%	± 0.5%	±0.5%	±0.5%
	LOAD REGULATI		±2.0%	±1.5%	±1.0%	± 0.5%	± 0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIM				500ms,200ms			0.570	- 0.070	1 0.070	1 - 0.5 /6
	HOLD UP TIME (1		16ms / 115VA		3001115,2001115	1230 VAC					
	HOLD OF TIME (1	ур.)		· · · · · · · · · · · · · · · · · · ·	MDC						
	VOLTAGE RANGI	E Note.5	90 ~ 305VAC	127 ~ 431 o "STATIC CH		IC" cootion)					
			`	O STATIC CH	ANACIENISTI	ic section)					
INPUT	FREQUENCY RA	NGE	47 ~ 63Hz		5/000V/40 DE	> 0 00/0771/4	006111				
	POWER FACTOR	(Typ.)		VAC, PF≧0.9			•				
			,	to "POWER FA	, ,		,				
	TOTAL HARMONIC	DISTORTION		_		_	≧75% / 277VA	C)			
			,	to "TOTAL HA			· · · · ·	1			
	EFFICIENCY (Typ	T .	91.5%	92%	93%	93.5%	93.5%	93.5%	94%	94%	94%
	AC CURRENT	12V	1.8A / 115VAC			.7A / 277VAC					
	(Typ.)	15V ~ 54V	2.1A / 115VAC			.8A / 277VAC					
	INRUSH CURRENT (Typ.)		COLD START	65A(twidth=445)	us measured a	t 50% Ipeak) at 2	230VAC; Per NE	EMA 410			
	MAX. No. of PSUs on 16A		A unite (aircuit baselos of the D) / 7 unite (aircuit baselos of the C) at 2201/AC								
	CIRCUIT BREAKER		4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC								
	CIRCUIT BREAK	ER	4 units (circuit	t breaker of typ	e B) / 7 units (	circuit breaker	of type C) at 23	30VAC			
	LEAKAGE CURR		4 units (circuit <0.75mA / 277		e B) / 7 units (	circuit breaker	of type C) at 23	30VAC			
	LEAKAGE CURR		,		e B) / 7 units(	circuit breaker	of type C) at 23	30VAC			
			<0.75mA / 277 95 ~ 108%	7VAC	,		of type C) at 23				
	LEAKAGE CURR		<0.75mA / 277 95 ~ 108% Constant curr	7VAC ent limiting, red	covers automa	tically after fau	,	emoved			
PROTECTION	OVER CURRENT SHORT CIRCUIT		<0.75mA / 277 95 ~ 108% Constant curr	7VAC ent limiting, red	covers automa	tically after fau	ult condition is re	emoved	47 ~ 53V	54 ~ 63V	59 ~ 65V
PROTECTION	LEAKAGE CURR OVER CURRENT		<0.75mA / 277 95 ~ 108% Constant curr Constant curr 14 ~ 17V	7VAC ent limiting, red ent limiting, red	covers automa covers automa 23 ~ 27V	tically after fau tically after fau 28 ~ 34V	alt condition is related to the second it condition is related as a second it condition is related to the se	emoved emoved	47 ~ 53V	54 ~ 63V	59 ~ 65V
PROTECTION	OVER CURRENT SHORT CIRCUIT	ENT	<0.75mA / 27 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/p	ent limiting, recent limiting, recent limiting, recent limiting, recent law 21V ovoltage with a	covers automa covers automa 23 ~ 27V auto-recovery c	tically after fau tically after fau 28 ~ 34V or re-power on	alt condition is related to the second it condition is related as a second it condition is related to the se	emoved emoved 41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
PROTECTION	OVER CURRENT SHORT CIRCUIT OVER VOLTAGE	ENT	<0.75mA / 277 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/g Shut down o/g	ent limiting, recent limiting, recent limiting, recent law 21V ovoltage with a povoltage, recover	covers automa covers automa 23 ~ 27V auto-recovery c vers automatic	tically after fau tically after fau 28 ~ 34V or re-power on ally after temp	Ilt condition is related to the second it condition is related as a second it condition is recovery	emoved emoved 41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
PROTECTION	DEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERA	ENT	<0.75mA / 277 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/g Shut down o/g	ent limiting, recent limiting, recent limiting, recent law 21V ovoltage with a ovoltage, recoverage.	covers automa covers automa 23 ~ 27V auto-recovery c vers automatic	tically after fau tically after fau 28 ~ 34V or re-power on ally after temp	Ilt condition is related to the second tion is related to the second to	emoved emoved 41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
	DEAKAGE CURR OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERA WORKING TEMP. MAX. CASE TEM	TURE P.	<0.75mA / 277 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/p Tcase= -40 ~ Tcase= +90°C	ent limiting, recent limiting, recent limiting, recent law 21V ovoltage with a ovoltage, recoverage.	covers automa covers automa 23 ~ 27V auto-recovery overs automatic e refer to "OUT	tically after fau tically after fau 28 ~ 34V or re-power on ally after temp	Ilt condition is related to the second tion is related to the second tion is related to the second to recovery erature goes do	emoved emoved 41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
	DEAKAGE CURR OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERA WORKING TEMP. MAX. CASE TEM WORKING HUMIE	TURE P. DITY	<0.75mA / 277 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/p Tcase= -40 ~ Tcase= +90°C	ent limiting, recent limiting, recent limiting, recent limiting, recent law 21V ovoltage with a povoltage, recoverable. (Please Connon-condensing)	covers automa covers automa 23 ~ 27V auto-recovery overs automatic e refer to "OUT	tically after fau tically after fau 28 ~ 34V or re-power on ally after temp	Ilt condition is related to the second tion is related to the second tion is related to the second to recovery erature goes do	emoved emoved 41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
	DEAKAGE CURR OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEM WORKING HUMIL STORAGE TEMP.	TURE P. DITY , HUMIDITY	<0.75mA / 27 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/g Shut down o/g Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C,	ent limiting, recent limiting, recent limiting, recent limiting, recent law 21V to voltage with a povoltage, recont +90°C (Please Connon-condensin 10 ~ 95% RH	covers automa covers automa 23 ~ 27V auto-recovery overs automatic e refer to "OUT	tically after fau tically after fau 28 ~ 34V or re-power on ally after temp	Ilt condition is related to the second tion is related to the second tion is related to the second to recovery erature goes do	emoved emoved 41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
	DEAKAGE CURR  OVER CURRENT  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERA  WORKING TEMP.  MAX. CASE TEM  WORKING HUMIE  STORAGE TEMP.  TEMP. COEFFICII	TURE P. DITY , HUMIDITY	<0.75mA / 277 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/p Shut down o/p Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C, ± 0.03%/°C (	ent limiting, recent limiting, recent limiting, recent limiting, recent law 21V ovoltage with a protage, recontended of the contended of the c	covers automa covers automa 23 ~ 27V auto-recovery c vers automatic e refer to "OUT	tically after fau tically after fau 28 ~ 34V or re-power on ally after temp FPUT LOAD vi	Ilt condition is related to the condition in the condition is related to the condition in the condition in the condition is related to the condition in the condition in the condition is related to the condition in the condition in the condition is related to the condition in the condition is related to the condition in the condition is related to the condition in the condition in the condition is related to the condition in the condition in the condition is related to the condition in the condition in the condition is related to the condition in the	emoved emoved 41 ~ 46V  own IRE" section)	47 ~ 53V	54 ~ 63V	59 ~ 65V
	DEAKAGE CURR OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEM WORKING HUMIL STORAGE TEMP.	TURE P. DITY , HUMIDITY	<0.75mA / 277 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/g Shut down o/g Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C, ± 0.03%/°C ( 10 ~ 500Hz, 5	ent limiting, recent limiting, recent limiting, recent limiting, recent la ~ 21V ovoltage with a ovoltage, recon+90°C (Please Conon-condensin 10 ~ 95% RH 0 ~ 60°C)	covers automa covers automa 23 ~ 27V auto-recovery overs automatic e refer to "OUT ag	tically after fau tically after fau 28 ~ 34V or re-power on ally after temp FPUT LOAD ve	alt condition is related to recovery erature goes do s TEMPERATU	emoved emoved 41 ~ 46V  own  IRE" section)			
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	DEAKAGE CURR  OVER CURRENT  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERA  WORKING TEMP.  MAX. CASE TEM  WORKING HUMIE  STORAGE TEMP.  TEMP. COEFFICII	TURE P. DITY , HUMIDITY	<0.75mA / 277 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/g Shut down o/g Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C ± 0.03%/°C ( 10 ~ 500Hz, 5 UL8750(type' IP65 or IP67;	ent limiting, recent limiting, recent limiting, recent limiting, recent la ~ 21V ovoltage with a ovoltage, recon+90°C (Please Conon-condensin 10 ~ 95% RH 0 ~ 60°C)  Ged 12min./1cyc  "HL"),CSA C22  J61347-1, J6	covers automa 23 ~ 27V auto-recovery covers automatic e refer to "OUT  19  1e, period for 7 2 No. 250.0-0 1347-2-13 (exc	tically after fau tically after fau tically after fau 28 ~ 34V or re-power on ally after temp TPUT LOAD vi 72min. each al 8;EN/AS/NZS cept for B,AB a	alt condition is related to recovery erature goes do s TEMPERATU	emoved emoved 41 ~ 46V  own IRE" section)	2-13 independe		
ENVIRONMENT	DEAKAGE CURR  OVER CURRENT  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERA  WORKING TEMP.  MAX. CASE TEMP  WORKING HUMIT  STORAGE TEMP.  TEMP. COEFFICIT  VIBRATION  SAFETY STANDA	TURE P. DITY , HUMIDITY ENT	<0.75mA / 277 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/g Shut down o/g Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C ± 0.03%/°C ( 10 ~ 500Hz, 5 UL8750(type' IP65 or IP67; KC61347-2-1	ent limiting, recent li	covers automa 23 ~ 27V auto-recovery covers automatic e refer to "OUT  19  1e, period for 7  2 No. 250.0-0 1347-2-13(exc)	tically after fau tically after fau tically after fau 28 ~ 34V or re-power on ally after temp TPUT LOAD vi 72min. each al 8;EN/AS/NZS cept for B,AB a	ong X, Y, Z axes	emoved emoved 41 ~ 46V  own IRE" section)	2-13 independe		
ENVIRONMENT	DEAKAGE CURR OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERA WORKING TEMP. MAX. CASE TEM WORKING HUMID STORAGE TEMP. TEMP. COEFFICIT VIBRATION SAFETY STANDA	TURE P. DITY , HUMIDITY ENT  ARDS	<0.75mA / 27° 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/p Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C ± 0.03%/°C ( 10 ~ 500Hz 5 UL8750(type) IP65 or IP67° KC61347-2-1 I/P-O/P:3.75f	ent limiting, recent li	covers automa 23 ~ 27V auto-recovery overs automatic e refer to "OUT  19  1e, period for 7  2 No. 250.0-0 1347-2-13(exc 0-type) approv 3:2KVAC 0	tically after fau tically after fau tically after fau 28 ~ 34V or re-power on ally after temp TPUT LOAD v: 72min. each al 8;EN/AS/NZS cept for B,AB a ved (P-FG:1.5KVA	ong X, Y, Z axes	emoved emoved 41 ~ 46V  own IRE" section)	2-13 independe		
ENVIRONMENT	DEAKAGE CURR  OVER CURRENT  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERA  WORKING TEMP.  MAX. CASE TEMP  WORKING HUMIT  STORAGE TEMP.  TEMP. COEFFICIT  VIBRATION  SAFETY STANDA	TURE P. DITY , HUMIDITY ENT  ARDS	<0.75mA / 277 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/p Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C, ±0.03%/°C ( 10 ~ 500Hz, 5 UL8750(type' IP65 or IP67; KC61347-2-1 I/P-O/P:3.75I I/P-O/P, I/P-F	ent limiting, recent li	covers automa 23 ~ 27V auto-recovery overs automatic e refer to "OUT  19  1e, period for 7 2 No. 250.0-0 1347-2-13(exc 0-type) approv 3:2KVAC 0 00M Ohms / 50	tically after fau tically after fau tically after fau 28 ~ 34V or re-power on ally after temp TPUT LOAD v: 72min. each al 8;EN/AS/NZS cept for B,AB a ved 0VDC / 25°C/	ong X, Y, Z axes 61347-1,EN/A and D-type), E/	emoved emoved 41 ~ 46V  own  IRE" section)  s S/NZS 61347- AC TP TC 004	2-13 independ. , KC61347-1,	ent;GB19510.1	
ENVIRONMENT	DEAKAGE CURR OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERA WORKING TEMP. MAX. CASE TEM WORKING HUMID STORAGE TEMP. TEMP. COEFFICIT VIBRATION SAFETY STANDA	TURE P. DITY , HUMIDITY ENT  ARDS	<0.75mA / 27° 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/g Shut down o/g Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C, ± 0.03%/°C ( 10 ~ 500Hz, 5 UL8750(type' IP65 or IP67; KC61347-2-1 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to	ent limiting, recent li	covers automa 23 ~ 27V auto-recovery covers automatic e refer to "OUT  19  1e, period for 7 2 No. 250.0-0 1347-2-13(exc 0-type) approv 3:2KVAC 0 10M Ohms / 50 155032 (CISPF	tically after fau tically after fau tically after fau 28 ~ 34V or re-power on ally after temp TPUT LOAD v: 72min. each al 8;EN/AS/NZS cept for B,AB a ved 0VDC / 25°C/	ong X, Y, Z axes	emoved emoved 41 ~ 46V  own  IRE" section)  s S/NZS 61347- AC TP TC 004	2-13 independ. , KC61347-1,	ent;GB19510.1	
ENVIRONMENT SAFETY &	DEAKAGE CURR  OVER CURRENT  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERA  WORKING TEMP.  MAX. CASE TEM  WORKING HUMIL  STORAGE TEMP.  TEMP. COEFFICII  VIBRATION  SAFETY STANDA  WITHSTAND VOL  ISOLATION RESI	TURE P. DITY , HUMIDITY ENT  ARDS	<0.75mA / 27: 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/p Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C, ±0.03%/°C ( 10 ~ 500Hz, 5 UL8750(type' IP65 or IP67; KC61347-2-1 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to GB17743 and	ent limiting, recent li	covers automa 23 ~ 27V auto-recovery overs automatic e refer to "OUT  19  1e, period for 7 2 No. 250.0-0 1347-2-13(exc 0-type) approv 3:2KVAC 0 10M Ohms / 50 155032 (CISPR AC TP TC 020	tically after fau tically after fau tically after fau 28 ~ 34V or re-power on ally after temp TPUT LOAD v: 72min. each al 8;EN/AS/NZS 2ept for B,AB a ved 0VDC / 25°C / 832) Class B, E	ong X, Y, Z axes 61347-1,EN/A and D-type), E/	emoved emoved 41 ~ 46V  own  IRE" section)  S S/NZS 61347- AC TP TC 004	2-13 independ. , KC61347-1, d≥50%); EN6	ent;GB19510.1	,GB19510.1
ENVIRONMENT	DEAKAGE CURR  OVER CURRENT  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERA  WORKING TEMP.  MAX. CASE TEMP  WORKING HUMIT  STORAGE TEMP.  TEMP. COEFFICII  VIBRATION  SAFETY STANDA  WITHSTAND VOL  ISOLATION RESI  EMC EMISSION	TURE P. DITY , HUMIDITY ENT  ARDS	<0.75mA / 27: 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/p Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C, ±0.03%/°C ( 10 ~ 500Hz, 5 UL8750(type' IP65 or IP67; KC61347-2-1 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to GB17743 and	ent limiting, recent li	covers automa 23 ~ 27V auto-recovery overs automatic e refer to "OUT  19  1e, period for 7 2 No. 250.0-0 1347-2-13(exc 0-type) approv 3:2KVAC 0 10M Ohms / 50 155032 (CISPR AC TP TC 020	tically after fau tically after fau tically after fau 28 ~ 34V or re-power on ally after temp TPUT LOAD v: 72min. each al 8;EN/AS/NZS cept for B,AB a ved 0VDC / 25°C / 832) Class B, E	ong X, Y, Z axes 61347-1,EN/As and D-type), E/ C 70% RH EN61000-3-2 C	emoved emoved 41 ~ 46V  own  IRE" section)  S S/NZS 61347- AC TP TC 004	2-13 independ., KC61347-1, d≥50%); EN6	ent;GB19510.1	,GB19510.1·
ENVIRONMENT SAFETY & EMC	LEAKAGE CURR  OVER CURRENT  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERA  WORKING TEMP.  MAX. CASE TEMP  WORKING HUMIT  STORAGE TEMP.  TEMP. COEFFICII  VIBRATION  SAFETY STANDA  WITHSTAND VOL  ISOLATION RESI  EMC EMISSION  EMC IMMUNITY  MTBF	TURE P. DITY , HUMIDITY ENT  ARDS	<0.75mA / 27: 95 ~ 108% Constant curr Constant curr 14 ~ 17V Shut down o/p Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C, ± 0.03%/°C ( 10 ~ 500Hz, 5 UL8750(type) IP65 or IP65; KC61347-2-1 I/P-O/P:3.75I I/P-O/P, I/P-F Compliance to GB17743 and Compliance to 757.2K hrs mi	ent limiting, recent li	covers automa 23 ~ 27V auto-recovery overs automatic e refer to "OUT  19  1e, period for 7  2 No. 250.0-0 1347-2-13(ext 0-type) approv 3:2KVAC O/ 0M Ohms / 50 155032 (CISPRAC TP TC 020 4,5,6,8,11, EN61	tically after fau tically after fau tically after fau 28 ~ 34V or re-power on ally after temp TPUT LOAD v: 72min. each al 8;EN/AS/NZS cept for B,AB a ved 0VDC / 25°C / 832) Class B, E	ong X, Y, Z axes 61347-1,EN/As and D-type), E/ C 70% RH EN61000-3-2 C	emoved emoved 41 ~ 46V  own  IRE" section)  s S/NZS 61347- AC TP TC 004	2-13 independ., KC61347-1, d≥50%); EN6	ent;GB19510.1	,GB19510.1
ENVIRONMENT	LEAKAGE CURR  OVER CURRENT  SHORT CIRCUIT  OVER VOLTAGE  OVER TEMPERA  WORKING TEMP.  MAX. CASE TEMP  WORKING HUMIT  STORAGE TEMP.  TEMP. COEFFICII  VIBRATION  SAFETY STANDA  WITHSTAND VOL  ISOLATION RESI  EMC EMISSION  EMC IMMUNITY	TURE P. DITY , HUMIDITY ENT  ARDS	<0.75mA / 27: 95 ~ 108% Constant currence Constant currence 14 ~ 17V Shut down o/g Tcase= -40 ~ Tcase= +90°C 20 ~ 95% RH -40 ~ +80°C ± 0.03%/°C ( 10 ~ 500Hz, 5 UL8750(type) IP65 or IP67; KC61347-2-1 I/P-O/P, I/P-F Compliance to GB17743 and Compliance to Total Compliance	ent limiting, recent li	covers automa 23 ~ 27V auto-recovery overs automatic e refer to "OUT  19  1e, period for 7  2 No. 250.0-0  1347-2-13(exc  0-type) approv  3:2KVAC O/  10M Ohms / 50  155032 (CISPF AC TP TC 020  4,5,6,8,11, EN61  SR-332 (Bello	tically after fau tically after fau tically after fau 28 ~ 34V or re-power on ally after temp TPUT LOAD v: 72min. each al 8;EN/AS/NZS cept for B,AB a ved 0VDC / 25°C / 832) Class B, E	ong X, Y, Z axes 61347-1,EN/As and D-type), E/ C 70% RH EN61000-3-2 C	emoved emoved 41 ~ 46V  own  IRE" section)  s S/NZS 61347- AC TP TC 004	2-13 independ., KC61347-1, d≥50%); EN6	ent;GB19510.1	,GB19510.1

- 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. 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
- 11. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 12. 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
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:HLG-185H-SPEC 2020-09-27

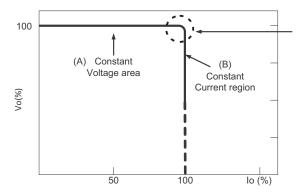
## ■ BLOCK DIAGRAM

Fosc: 100KHz



#### ■ DRIVING METHODS OF LED MODULE

※ 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 MEAN WELL.

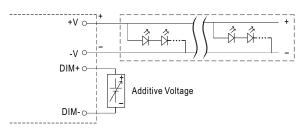


## ■ DIMMING OPERATION



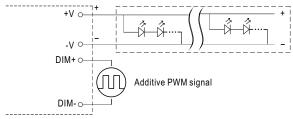
#### imes 3 in 1 dimming function (for B/AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
  - 1 ~ 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:  $100\mu A$  (typ.)
- O Applying additive 1 ~ 10VDC



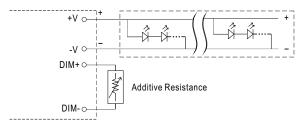
"DO NOT connect "DIM- to -V"

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

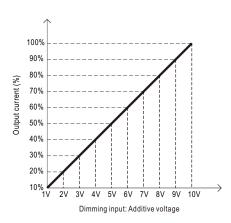


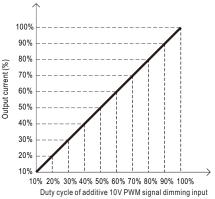
"DO NOT connect "DIM- to -V"

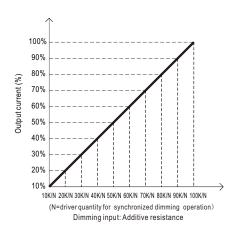
Applying additive resistance:



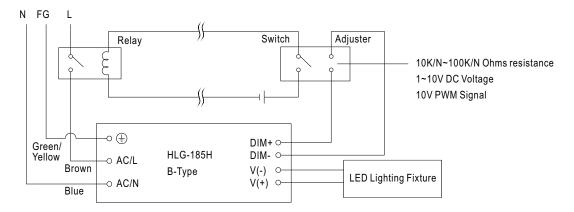
"DO NOT connect "DIM- to -V"





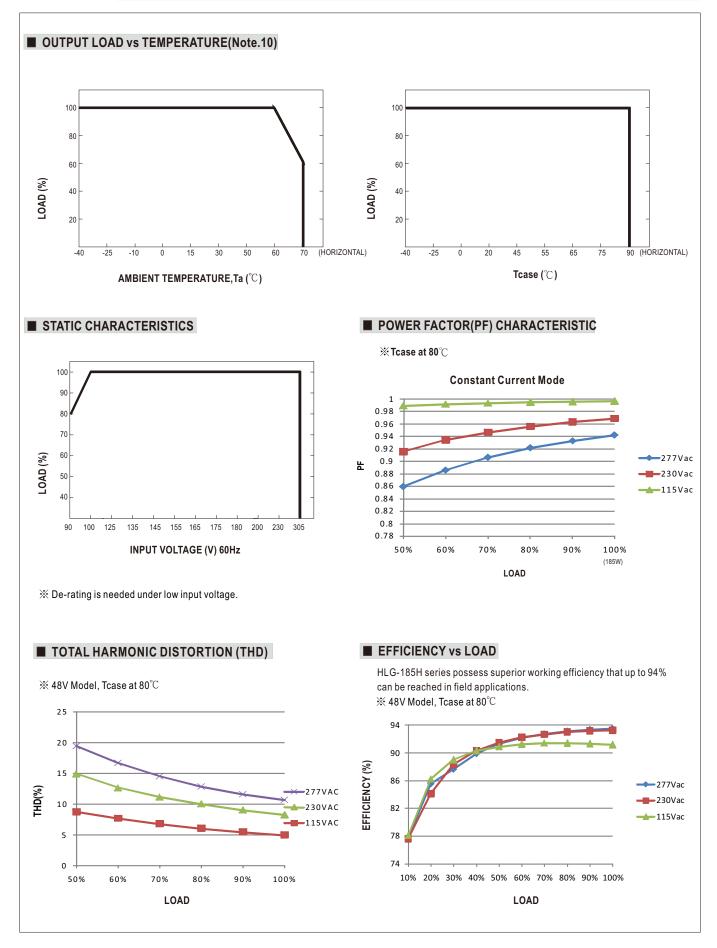


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



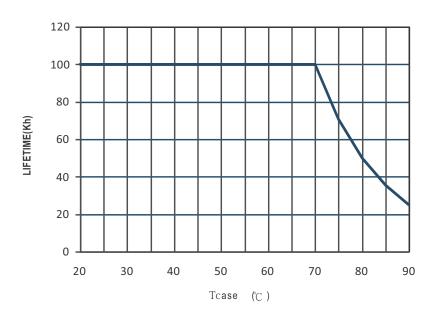
Using a switch and relay can turn ON/OFF the lighting fixture.



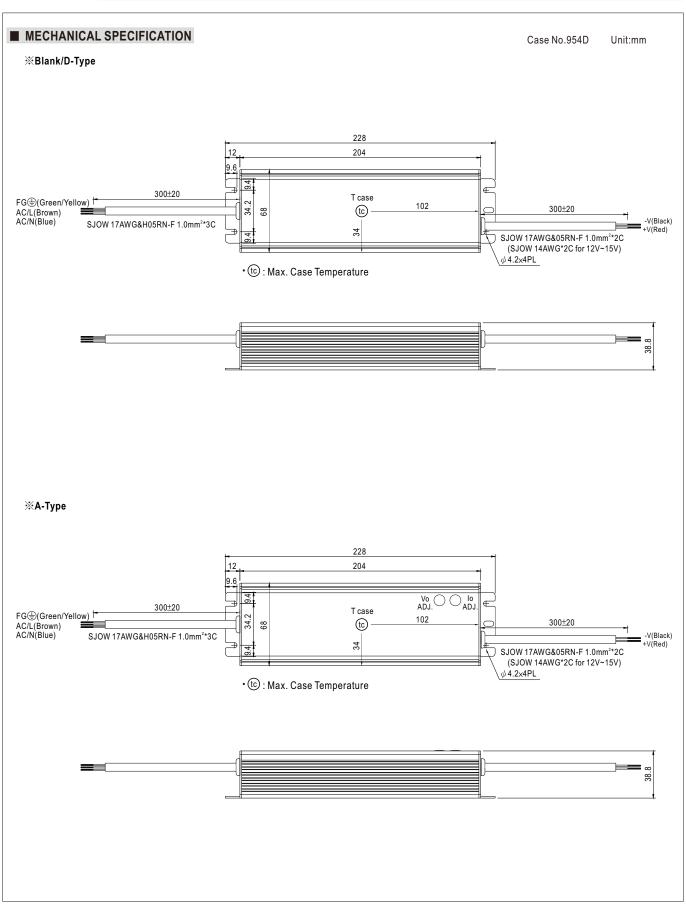




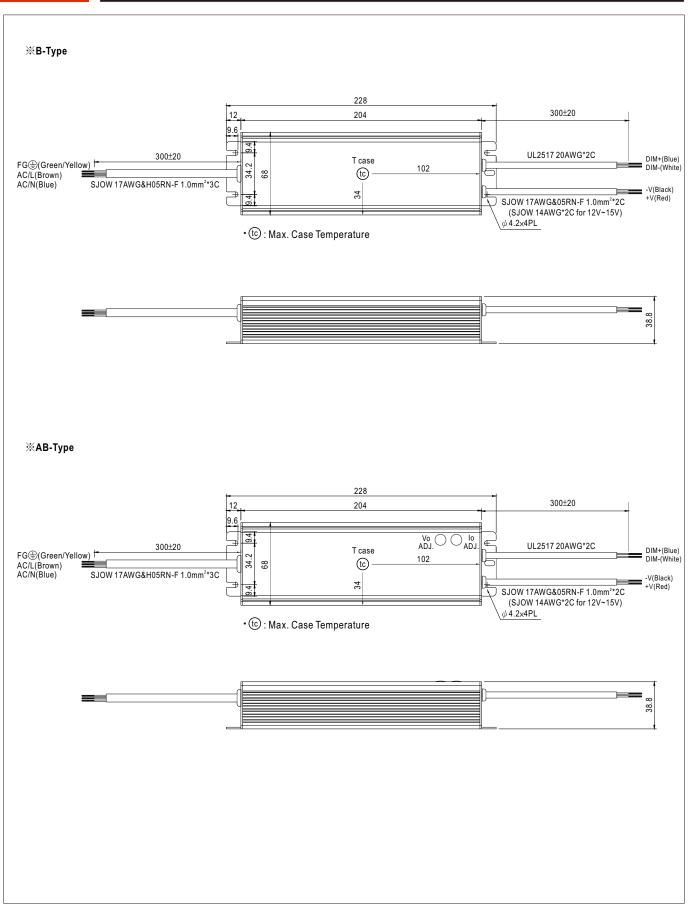
# ■ LIFE TIME









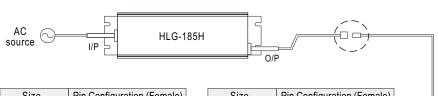




#### ■ WATERPROOF CONNECTION

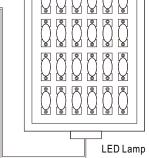
#### Waterproof connector

 $Waterproof connector \ can be \ assembled \ on \ the \ output \ cable \ of \ HLG-185H \ to \ operate \ in \ dry/wet/damp \ or \ outdoor \ environment.$ 

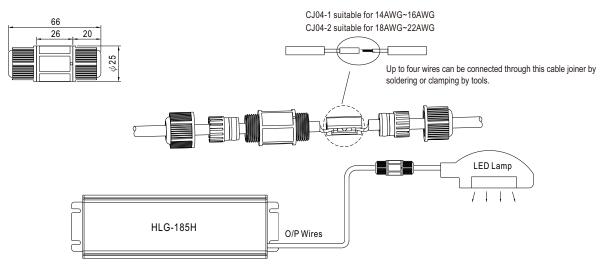


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

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

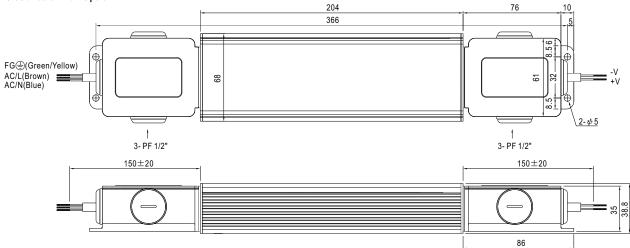


#### ※ Cable Joiner



 $\bigcirc$  CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No. : CJ04-1, CJ04-2.

## % Junction Box Option



 $\\ \bigcirc \ \, \text{Junction box option is available for } \ \, \text{A/Blank-Type. Please contact MEAW WELL for details.}$ 

#### ■ INSTALLATION MANUAL

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