







■ Features

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

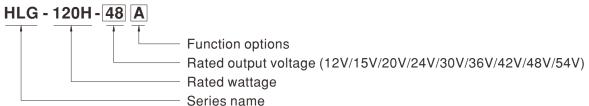
Applications

- · 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-120H series is a 120W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-120H operates from $90 \sim 305 \text{VAC}$ and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 93.5%, with the fanless design, the entire series is able to operate for $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 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-120H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



Туре	IP Level	Function
Blank	IP67	Io and Vo fixed
Α	IP65	Io and Vo adjustable through built-in potentiometer
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)



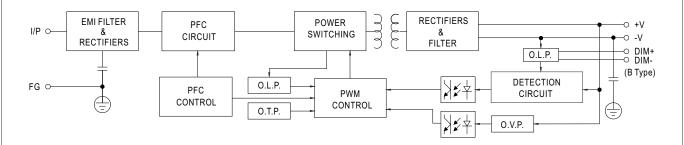
120W Single Output Switching Power Supply HLG-120H-xx ADM series

SPECIFICATION

RATED CURRENT 10.4 8.A 6.A 5.A 4.A 3.4.A 2.4.A 2.3.A	MODEL		HLG-120H-12	HLG-120H-15	HLG-120H-20	HLG-120H-24	HLG-120H-30	HLG-120H-36	HLG-120H-42	HLG-120H-48	HLG-120H-54	
## RATED CURRENT* 10A 8.6 8.6 8.4 8.4 4.4 3.4.4 2.6.9 2.5.6 2.3.6 ## RATED CURRENT* 10W 12W 12W 12W 12W 12 W 12		DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
RATED FOWER RATED FOWER RATED FOWER RATED ROWSE (max.) Move. 2000 (1900) RATED ROWSE (max.) RANGE RATED ROWSE (max.) RANGE RATED ROWSE (max.) RANGE RATED ROWSE (max.) RANGE		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 FOWER RATED FOWER RATED FOWER RATED ROWSE (max.) Move. 2000 (1900) RATED ROWSE (max.) RANGE RATED ROWSE (max.) RANGE RATED ROWSE (max.) RANGE RATED ROWSE (max.) RANGE								3.4A	2.9A			
RPPLE & NOISE (max.) Note.2 150m/t/p. 150m/t/p. 150m/t/p. 150m/t/p. 200m/t/p. 200m/t/p												
VOLTAGE ADJ. RANGE												
VOLTAGE ADJ.RANGE \$1.9 ± 1.3 \times 1.3								200p p	p	200p p		
CURRENT ADJ. RAMGE Solidar Sol		VOLTAGE ADJ. RANGE					27 ~ 33\/	33 ~ 40\/	38 ~ 46\/	13 ~ 53V	19 ~ 58\/	
CURRENT ADJ. RANGE 5-10.	OUTPUT					1	21 - 33 V	33 4 0 v	30 401	45 * 55 V	43 - 30 0	
VOLTAGE FOLERANCE 12.5% 12.0% 11.0% 11.0% 11.0% 11.0% 11.0% 11.0% 11.0% 11.0% 11.0% 10.0%		CURRENT ADJ. RANGE	_ ·		· ·		2 - 44	17~211	1.4 ~ 2.04	12-254	11-224	
LINR REGULATION		VOLTAGE TOLEDANGE H. C.										
LOAD REGULATION												
SETUR_RISETIME												
VOLTAGE RANGE VOLTAGE RANGE							±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
VOLTAGE RANGE Notes			-		00ms,50ms/2	30VAC						
VOLTAGE RANGE FREQUENCY RANGE FREQUENCY RANGE 47 - 631/2 47		HOLD UP TIME (Typ.)	12ms / 115VA	C, 230VAC								
FREQUENCY RANGE 47 - 6314		VOLTACE DANCE Note 5										
POWER FACTOR (Typ.)		VULTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)									
POWER FACTOR (Typ.)		FREQUENCY RANGE	47 ~ 63Hz									
TOTAL HARMONIC DISTORTION THO 20% (@) and 3= 75% / 115VAC 230VAC Golda2=75% / 277VAC												
NPUT TOTAL HARMONIC DISTORTION THD < 20% (@ load ≥ 50% / 115\AC 20\AC ; @ load ≥ 75% / 277\AC		POWER FACTOR (Typ.)										
TOTAL HARMONIC DISTORTION Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)												
EFFICIENCY (Typ.) 92% 92% 93% 93% 93% 93% 93% 93.5%		TOTAL HARMONIC DISTORTION	,	_	*	, 0		-,				
AC CURRENT (Typ.) 1.4A/115VAC 0.6A/230VAC 0.55A/27TVAC INRUSH CURRENT (Typ.) 1.COLD START 60A(wise)=37ass measured at 50% [spail) at 230VAC; Per NEMA 410 MAX. No. of PSUs on 16A CIRCUIT BREAKER 1.COLD START 60A(wise)=37ass measured at 50% [spail) at 230VAC; Per NEMA 410 VER CURRENT 2.5 mils (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC JOVER CURRENT 2.5 mils (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC JOVER CURRENT 2.5 mils (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC JOVER CURRENT 2.5 mils (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC JOVER CURRENT 2.5 mils (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC JOVER CURRENT 2.5 mils (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC JOVER CURRENT 2.5 mils (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC JOVER CURRENT 2.5 mils (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC JOVER CURRENT 2.5 mils (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC JOVER CURRENT 2.5 mils (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC JOVER CURRENT 2.5 mils (circuit breaker of type C) at 230VAC JOVER VOLTAGE 3.5 mils (circuit breaker of type C) at 230VAC JOVER VOLTAGE 3.5 mils double with auto-recovery or re-power on to recovery WORKING HUMIDITY 2.5 mils double, recovers automatically after fault condition is removed JOVER VOLTAGE 3.5 mils double, recovers automatically after fault condition is removed JOVER VOLTAGE 3.5 mils double, and the support of	INPUT	EEEICIENCY (Typ.)	,			· ·		03%	03%	03 5%	03 5%	
INRUSH CURRENT (Typ.) COLD START 60A(twolm=375us measured at 50% (peak) at 230VAC. Per NEMA 410		1 ,						3370	3370	33.370	33.370	
MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT < 0.75mA / 27TVAC								EMA 410				
CIRCUIT BREAKER Sunits (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC LEAKAGE CURRENT 95 - 108%		(21 /	COLD STAKT	OUA(twiatn-3/3	us measureu a	t 50% ipeak) at	ZSUVAC, PELIN	EIVIA 4 IU				
PROTECTION PROTECTION PROTECTION PROTECTION PROTECTION PROPERTY & SHORT CIRCUIT Constant current limiting, recovers automatically after fault condition is removed 14 - 17V			5 units (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC									
AND CORRECTION SHORT CIRCUIT Constant current limiting, recovers automatically after fault condition is removed 14 - 17V 18 - 21V 23 - 27V 28 - 34V 34 - 38V 41 - 46V 47 - 53V 54 - 63V 59 - 65V Shut down of poltage with auto-recovery or re-power on to recovery OVER TEMPERATURE Shut down of poltage, recovers automatically after temperature goes down WORKING FEMP. Tease - 40 - 480°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. WORKING HUMIDITY 20 - 95% RH non-condensing STORAGE TEMP, HUMIDITY 40 - +80°C, 10 - 95% RH TEMP. COEFFICIENT 40 - 500°Lz, 50 E Tzmin. / 1cycle, period for 72min. each along X, Y, Z axes SAFETY 8 TANDARDS Note. 3 AFETY STANDARDS Note. SAFETY STANDARDS Note. 10 - 500°Lz, 50 E Tzmin. / 1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67, J61347-31 J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1 WITHSTAND VOLTAGE I/P-O/P. I/P-FG; 2KVAC SOLITION RESISTANCE EMC EMISSION Note.8 CEMC EMISSION Note.8 CEMC EMISSION Note.8 COMPliance to EN561000-4-23,4,5.6.8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 MTBF SEPS. SHE STANDARDS Note.8 DIMENSION 20°68'38.8mm (L"W"H) PACKING 1.12Kg; 9pos/13.75Kg/0.80UFT 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 0.1 uf. & 47 uf 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 180 Lond feature of the driver may lead to increase of the set up time. 7. The driver is considered as a component that will be ope		LEAKAGE CURRENT	<0.75mA/27	7VAC								
AND CORRECTION SHORT CIRCUIT Constant current limiting, recovers automatically after fault condition is removed 14 - 17V 18 - 21V 23 - 27V 28 - 34V 34 - 38V 41 - 46V 47 - 53V 54 - 63V 59 - 65V Shut down of poltage with auto-recovery or re-power on to recovery OVER TEMPERATURE Shut down of poltage, recovers automatically after temperature goes down WORKING FEMP. Tease - 40 - 480°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. WORKING HUMIDITY 20 - 95% RH non-condensing STORAGE TEMP, HUMIDITY 40 - +80°C, 10 - 95% RH TEMP. COEFFICIENT 40 - 500°Lz, 50 E Tzmin. / 1cycle, period for 72min. each along X, Y, Z axes SAFETY 8 TANDARDS Note. 3 AFETY STANDARDS Note. SAFETY STANDARDS Note. 10 - 500°Lz, 50 E Tzmin. / 1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67, J61347-31 J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1 WITHSTAND VOLTAGE I/P-O/P. I/P-FG; 2KVAC SOLITION RESISTANCE EMC EMISSION Note.8 CEMC EMISSION Note.8 CEMC EMISSION Note.8 COMPliance to EN561000-4-23,4,5.6.8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 MTBF SEPS. SHE STANDARDS Note.8 DIMENSION 20°68'38.8mm (L"W"H) PACKING 1.12Kg; 9pos/13.75Kg/0.80UFT 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 0.1 uf. & 47 uf 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 180 Lond feature of the driver may lead to increase of the set up time. 7. The driver is considered as a component that will be ope												
PROTECTION OVER YOLTAGE 14 - 17V 18 - 21V 23 - 27V 23 - 27V 28 - 34V 34 - 38V 34 - 38V 34 - 753V 35 - 65V Shut down o/p voltage, recovers automatically after fearlit condition is removed OVER TEMPERATURE Shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMP. TCase= -40 - +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. WORKING HUMIDITY 20 - 95% RH non-condensing WORKING HUMIDITY TEMP. COEFFICIENT 10 - 500Hz, 56; 12min,1/1cycle, period for 72min. each along X, Y, Z axes UL8750(Type*HL*L), CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67, J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1 WITHSTAND VOLTAGE IP0/P:3.75KVAC IP-F-6;2KVAC 0/P-F-6;1.5KVAC EMC EMISSION Note.8. Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (@ load ≥50%); EN61000-3-3 EMC IMMUNITY Compliance to EN560100-4-23, 4, 5, 6, 8, 11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 MTBF S59.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HDBK-217F (25°C) DIMENSION 200*68*38.8mm ("-W*H) PACKING 1.12Kg; 9pcs/13.75Kg/0.8CUFT 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 200MHz 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 tomorbination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manu		OVER CURRENT										
14 - 17V		CHORT CIRCUIT										
Shut down of p voltage with auto-recovery or re-power on to recovery OVER TEMPERATURE Shut down of p voltage, recovers automatically after temperature goes down WORKING TEMP. Tcase=-40°C Tcase=-40°C Tcase=-40°C Tcase=-40°C Tcase=-40°C WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP. HUMIDITY 40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT 20,03% (°C (0 ~ 60°C) VIBRATION 10 ~ 500Hz, 5G 12min/1cycle, period for 72min. each along X, Y, Z axes UL8750(type="HL"), CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67, J61347-34FETY SAFETY STANDARDS Note 8 J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1 WITHSTAND VOLTAGE I/P-O/P; I/P-FG, I/P-FG:2KVAC I/	DOTECTION	SHOKI CIKCUII							47 - F2\/	E4 - 621/	E0 - 6E\/	
OVER TEMPERATURE Shut down ofp voltage, recovers automatically after temperature goes down WORKING TEMP. TCase= +40°C' (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. MAX. CASE TEMP. TCASE= +40°C' (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. TOAD STORAGE TEMP. TOAD STORAGE TEMP, HUMIDITY 20 − 95% RH TEMP. COEFFICIENT 10.03%/C (0 − 60°C) VIBRATION 10 − 500Hz, 5G 12min/1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS Nota. SAFETY STANDARDS Nota. UL8750(type*HL'), CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-2-13 independent; IP65 or IP67, J61347-J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1 SAFETY STANDARDS Nota. SAFETY STANDARDS Nota. UL8750(type*HL'), CSA C22.2 No. 250.0-08, ENEC, TUV EN60950-1 SAFETY STANDARDS Nota. SAFETY STANDARDS Nota. UL8750(type*HL'), CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-2-13 independent; IP65 or IP67, J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1 SAFETY STANDARDS Nota. SAFETY STANDARDS Nota. UL97-0/P, IIP-FG, OIP-FG:100M Ohms / 500VDC / 25°C / 170% RH EMC EMISSION Nota. EMC EMISSION Nota. Compliance to EN51000-4-2, 3,4,56,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 of MTBF S59.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HDBK-217F (25°C) DIMENSION 20°68/38.8mm (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 20MbL of bandwidth by using a 12° Misted 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 ONOFF the driver may lead to increase of the set	PROTECTION	OVER VOLTAGE										
WORKING TEMP. TCasse= +40 ~ +80 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) MAX. CASE TEMP. TCasse= +80 °C WORKING HUMIDITY 20 - 95% RH non-condensing TEMP. COEFFCIENT 10 ~ 500Hz, 56 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type*HL**), CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67, J61347-J6147-2-13 approved; design refer to UL60950-1, TUV EN60950-1 WITHSTAND VOLTAGE WITHSTAND VOLTAGE IP-O/P; 3.75KVAC IP-FG:2KVAC O/P-FG:1.5KVAC ISOLATION RESISTANCE IP-O/P; IP-FG, O/P-FG:1.0M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Note.8 Compliance to EN51000-4-2, 3.4, 5.6, 8, 11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 MTDF S59.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HDBK-217F (25°C) DIMENSION 220°68*38.mm (L*W*H) PACKING 1.12Kg; 9pcs/13.75Kg/0.8CUFT 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 marufacturers must re-qualify EMC Directive on the complete installation again. 8. The model certified for CCC(CG(BH95101.4, GB19510.1, GB174743 and GB17625.1) is an optional model . Please contact MEAN WELL for details. 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver												
MAX. CASE TEMP. Tcase=+80°C WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY 20 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 60°C) VIBRATION 10 ~ 500Hz, 56 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY \$ SAFETY \$TANDARD\$ Note. SAFETY \$ WITHSTAND VOLTAGE I/P-0/Ps. 3.75KVAC / 10 ~ F60°C) I/P-0/Ps. 3.75KVAC / 10 ~ F60°C) WITHSTAND VOLTAGE I/P-0/Ps. 3.75KVAC / 10 ~ F60°C) EMC EMISSION Note. EMC EMISSION Note. Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (@ load≥50%); EN61000-3-3 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 559.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HDBK-217F (25°C) DIMENSION 1.12Kg; 9pcs/13.75Kg/0.8CUFT 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 #100 cld 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. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model. Please contact MEAN WELL for details. 10. 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 11. Please refer to the warranty												
WORKING HUMIDITY 20 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY 40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/C (0 ~ 60°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS Note. 8 SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE 1/P-O/P:3.75KVAC 1/P-FG:2KVAC 0/P-FG:1.5KVAC ISOLATION RESISTANCE 1/P-O/P:3.75KVAC 1/P-FG:2KVAC 0/P-FG:1.5KVAC EMC EMISSION Note. 8 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 559.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HDBK-217F (25°C) DIMENSION 20°68*38.8mm (L-W*H) PACKING 1.12Kg; 9pcs/13.75Kg/0.8CUFT 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 210MLz 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 METH-ODS 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 stirst 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. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model. Please contact MEAN WELL for details. 9. 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. 10. This series meets the typical life expectancy of >62.000 hours of operation when Tcase, particularly (€) point (or TMP,			· · · · · · · · · · · · · · · · · · ·									
STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT 10.03%/C (0 ~ 60°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS Note.8 SAFETY STANDARDS Note.8 SAFETY STANDARDS Note.8 Note.8 Note.8 Note.8 SAFETY STANDARDS Note.8		MAX. CASE TEMP.										
STORAGE TEMP, HUMIDITY TEMP. COEFFICIENT ±0.03%/C (0 ~ 60°C) VIBRATION 10 ~ 500Hz, 56 12min/1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67, J61347-341 approved; design refer to UL60950-1, TUV EN60950-1 WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:B-G, O/P-FG:100M Ohms / 500VDC /25°C / 70% RH EMC EMISSION Note.8 Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (@ load ≥50%); EN61000-3-3 EMC IMMUNITY Compliance to EN51000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2 WTBF 559.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HDBK-217F (25°C) DIMENSION 220°68'38.8mm (L*W*H) PACKING 1.12Kg; 9pcs/13.75Kg/0.8CUFT 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 METH-ODS 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. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details. 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used be	ENVIRONMENT											
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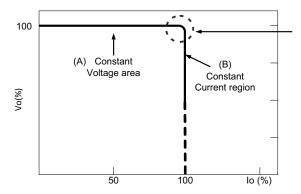
■ BLOCK DIAGRAM

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.

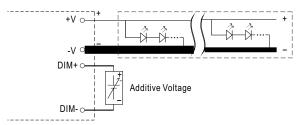


■ DIMMING OPERATION



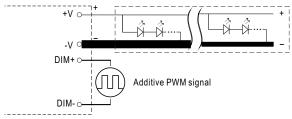
\divideontimes 3 in 1 dimming function (for B-Type)

- $\cdot \ \, \text{Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:}$
 - 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



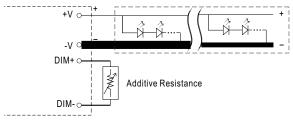
"DO NOT connect "DIM- to -V"

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

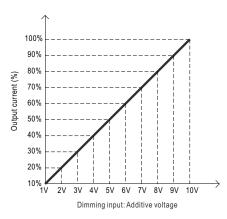


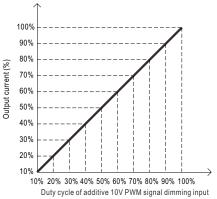
"DO NOT connect "DIM- to -V"

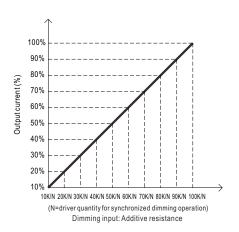
Applying additive resistance:



"DO NOT connect "DIM- to -V"



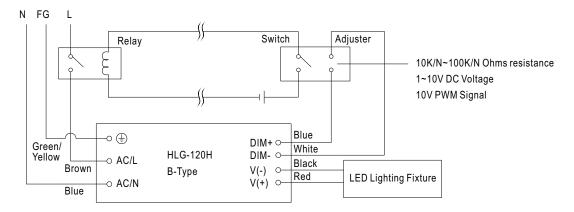






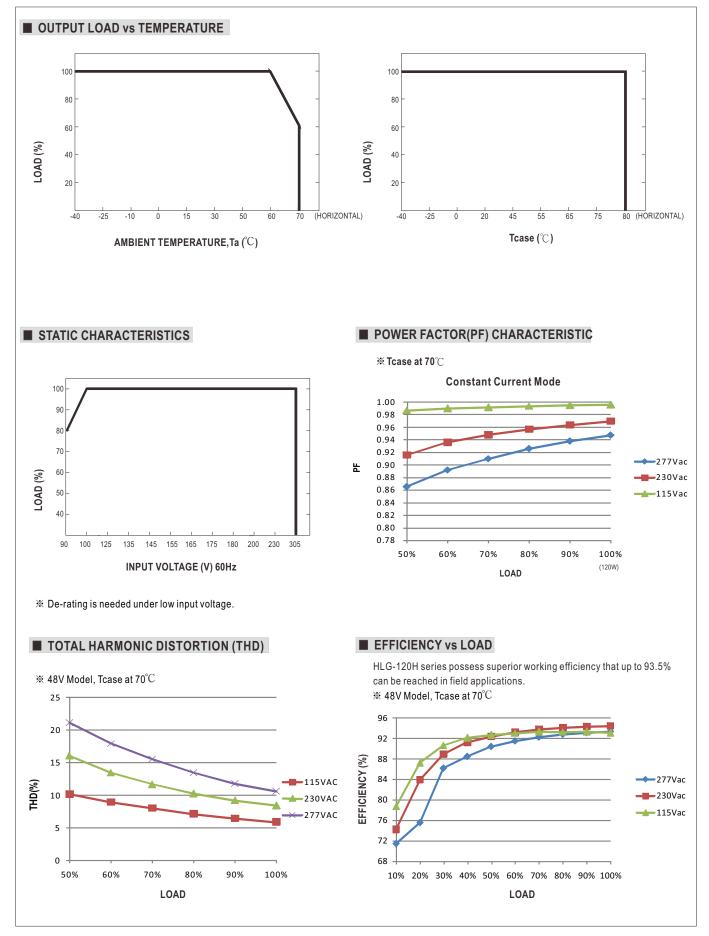
120W Single Output Switching Power Supply HLG-120H-xx ADM series

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.

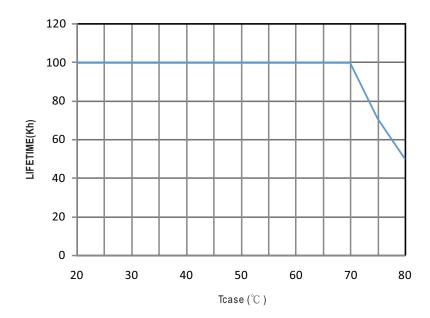


Using a switch and relay can turn ON/OFF the lighting fixture.



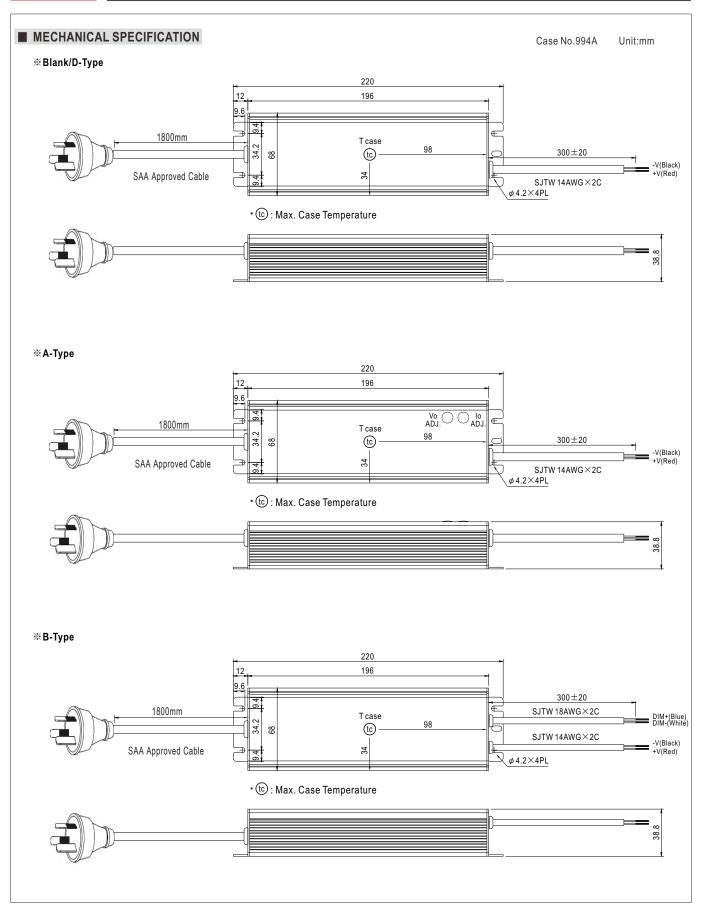


■ LIFETIME





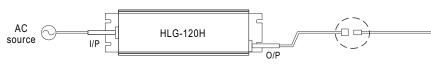
120W Single Output Switching Power Supply HLG-120 H-xx ADM series



■ WATERPROOF CONNECTION

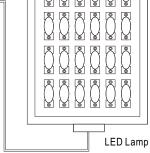
Waterproof connector

 $Waterproof connector \ can be \ assembled \ on \ the \ output \ cable \ of \ HLG-120H \ to \ operate \ in \ dry/wet/damp \ or \ outdoor \ environment.$

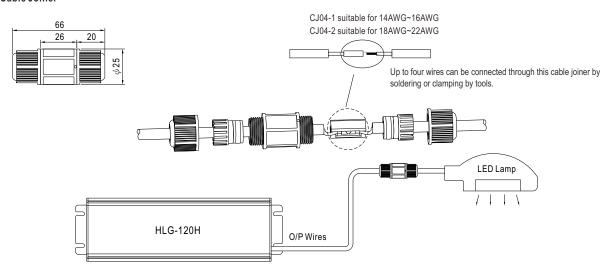


Size	Pin Configuration (Female)				
M12	000	000			
IVITZ	4-PIN	5-PIN			
	5A/PIN	5A/PIN			
Order No.	M12-04	M12-05			
Suitable Current	10A max.	10A max.			

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

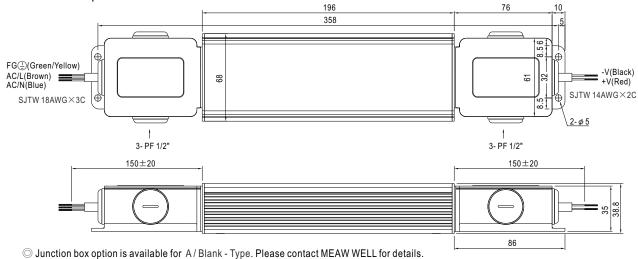


X Cable Joiner



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

*** Junction Box Option**



■ INSTALLATION MANUAL

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