





■ Features :

- · Constant current design
- Universal AC input / Full range (up to 305VAC)
- · Built-in active PFC function
- High efficiency up to 91%
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- Output current adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Three in one dimming function (1~10Vdc or 10V PWM signal or resistance)
- Suitable for dry / damp / wet locations
- 5 years warranty (Note.5)





















HLG-60H-C350A A: IP65 rated. Constant current level can be adjusted through internal potentiometer.

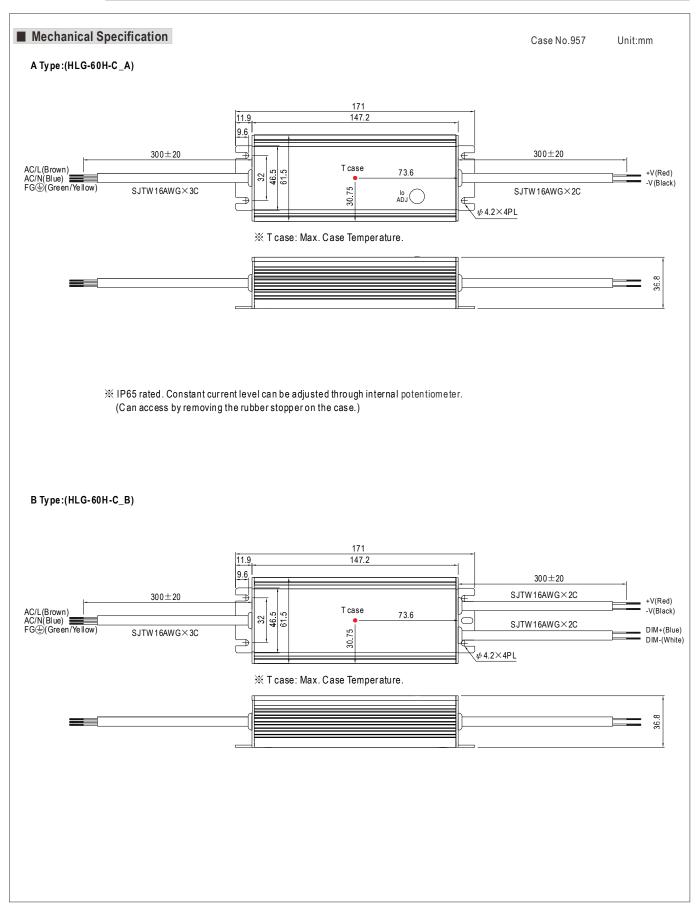
B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

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

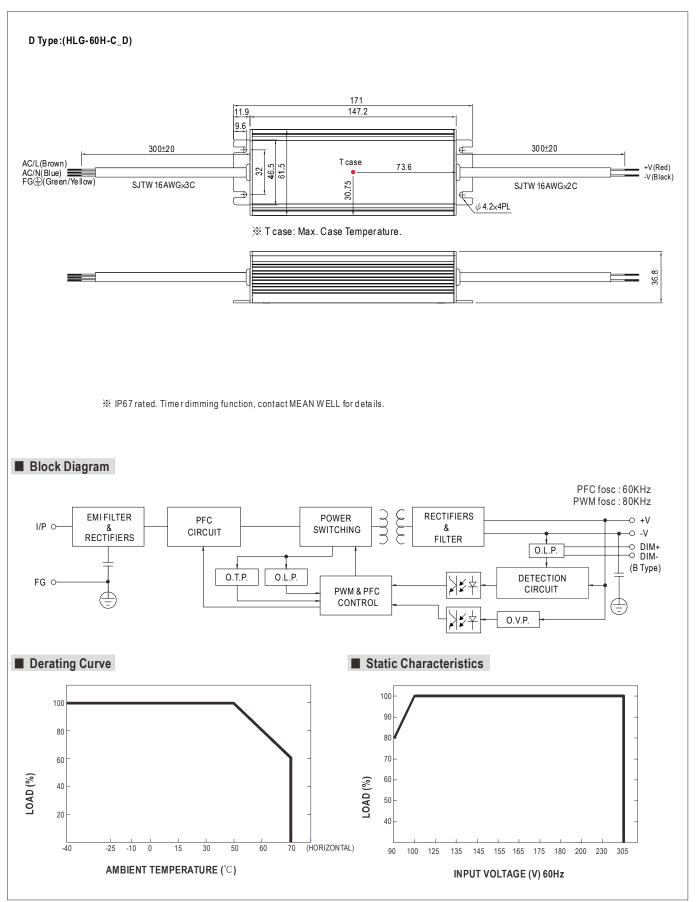
SPECIFICATION

complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 5. Refer to warranty statement.	MODEL		HLG-60H-C350	HLG-60H-C700						
CONSTANT CURRENT REGION Nates 100 - 200V 70W 70W		RATED CURRENT	350mA	700mA						
RATED POWER RIPPLE QUERENT THE		CURRENT ACCURACY	±5.0%							
RIPPLE A NOISE Note: 1Vp-p		CONSTANT CURRENT REGION Note.6	100 ~ 200V	50 ~ 100V						
NEPLE & NOISE Note.7		RATED POWER	70W	70W						
CURRENT ADJ. RANGE LINE REGULATION LINE REGULATION SETUP, RISE TIME 1500ms, 80ms / 115VAC at full load 1000ms, 80ms / 230VAC at full load HOLD UP TIME (Typ.) VOLTAGE RANGE Note2 90 - 395VAC 127VDC - 1431VDC FREQUENCY RANGE POWER FACTOR (Typ.) PP-0.98/115VAC, PP-0.96/230VAC, PP-0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve) TOTAL HARMONIC DISTORTION THD - 20% when output loading ≥60% at 115VAC/230VAC input and output loading ≥75% at 277VAC input EFFICIENCY (Typ.) AC CURRENT (Typ.) O.89A / 115VAC SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed OVER VOLTAGE WORKING TEMP. #40 - +70°C (Refer to "Derating Curve") WORKING HUMIDITY 10 - 580°C, 10 - 95% RH non-condensing STORAGE TEMP., HUMIDITY 10 - 580°C, 10 - 95% RH TEMP. COEFFICIENT TIMP. COEFFICIENT #40 - +80°C, 10 - 95% RH TEMP. COEFFICIENT #50.ATION RESISTANCE IP-0/P. IP-Fe; O/P-Fe; 1000 Noms / 500 VPC / 25°C / 70% RH TEMP. COEFFICIENT #50.ATION RESISTANCE ENC EMIC MISSION Compliance to EN6100-4-2,3.4,5.6.8.11, EN61347-2-13 independent, IP65 or IP67 approved WITHSTAND VOLTAGE ISOLATION RESISTANCE ENC EMIC MISSION Compliance to EN6100-4-2,3.4,5.6.8.11, EN61547, heavy industry level (surge L.N-FG: 4KV), criteria A MTBF 338K hrs min. MIL-HDBK-217F (25°C) DIMENSION 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Learting may be needed under tow input valuages, Please check the static characteristics for more details. 3. Safety and EMC design refer to EN65099-I, CNS15233, G8700.1 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.		RIPPLE CURRENT	生5%							
LINE REGULATION	OUTPUT	RIPPLE & NOISE Note.7	1Vp-p	0.5Vp-p						
LINE REGULATION		CURRENT AR L RANCE	Can be adjusted by internal potentiometer A type only							
SETUP, RISE TIME 1500ms, 80ms / 115VAC at full load 1000ms, 80ms / 230VAC at full load (Please refer to "Power Factor Characteristic" curve) 700		CURRENT ADJ. RANGE	210 ~ 350mA	420 ~ 700mA						
HOLD UP TIME (Typ.) 16ms at full load 230VAC / 115VAC		LINE REGULATION	±1% ±1%							
VOLTAGE RANGE Note.2 90 ~ 305VAC 127VDC ~ 431VDC		SETUP, RISE TIME	1500ms, 80ms / 115VAC at full load	t full load						
FREQUENCY RANGE 47 ~ 63Hz		HOLD UP TIME (Typ.)	16ms at full load 230VAC / 115VAC							
INPUT POWER FACTOR (Typ.) PF>0.98/115VAC, PF>0.96/230VAC, PF>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)		VOLTAGE RANGE Note.2	90 ~ 305VAC 127VDC ~ 431VDC							
INPUT TOTAL HARMONIC DISTORTION THD< 20% when output loading ≥60% at 115VAC/230VAC input and output loading ≥75% at 277VAC input EFFICIENCY (Typ.) 91% 90.5% AC CURRENT (Typ.) 0.69A / 115VAC 0.35A / 230VAC 0.29A / 277VAC INRUSH CURRENT (Typ.) 1.00LD START 60A(lwidth=275 / 15 measured at 50% lpeak) at 230VAC LEAKAGE CURRENT < <0.75mA / 277VAC SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed OVER VOLTAGE 700 120 - 400 - 70°C (Refer to "Derating Curve") WORKING TEMP40 - +70°C (Refer to "Derating Curve") WORKING TEMP40 - +70°C (Refer to "Derating Curve") WORKING TEMP40 - +70°C (Refer to "Derating Curve") WORKING HUMIDITY 10 - 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 SAFETY & EMC WITHSTAND VOLTAGE 1/P-0/P; 3.75KVAC 1/P-FG:2KVAC 0/P-FG:0.5KVAC SOLATION RESISTANCE 1/P-0/P; 1/P-FG, 0/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMIC EMISSION Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-2 EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-2 EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-2 ENC IMMUNITY Complia		FREQUENCY RANGE	47 ~ 63Hz							
EFFICIENCY (Typ.) 91% 90.5% 90.5%		POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.96/230VAC, PF>0.94/277VAC at full loa	d (Please refer to "Power Factor Characteristic" curve)						
EFFICIENCY (Typ.) 91% 90.5% AC CURRENT (Typ.) 0.69A/115VAC 0.35A/230VAC 0.29A/277VAC INRUSH CURRENT (Typ.) COLD START 60A(twish=275 µs measured at 50% lpesk) at 230VAC LEAKAGE CURRENT < 0.75mA/277VAC SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed OVER VOLTAGE 230 - 250V 120 - 140V Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery WORKING TEMP40 - +70°C (Refer to "Derating Curve") WORKING HUMIDITY 10 - 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 SAFETY 8. EMC WITHSTAND VOLTAGE 1/P-0/P:3.75KVAC 1/P-FG:2KVAC 0/P-FG:0.5KVAC ISOLATION RESISTANCE 1/P-0/P;1.7-FG, 0/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN5100-4-2.3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A MTBF 338K hrs min. MIL-HDBK-217F (25°C) DIMENSION 171*16.15*38.8 mm (L*W*H) PACKING 0.73Kg; 20pcs/15.6Kg/0.9CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-quality EMC Directive on the complete installation again. 5. Refer to warranty statement.	INDUT	TOTAL HARMONIC DISTORTION	THD< 20% when output loading ≥60% at 115VAC/230VAC inp	ut and output loading≧75% at 277VAC input						
INRUSH CURRENT (Typ.) COLD START 60A(twidth=275 µs measured at 50% peak) at 230VAC LEAKAGE CURRENT < <0.75mA / 277VAC SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed OVER VOLTAGE 230 - 250V 120 - 140V Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery OVER TEMPERATURE Shut down o/p voltage, re-power on to recovery OVER TEMPERATURE Shut down o/p voltage with auto-recovery or re-power on to recovery WORKING TEMP. 40 ~ +70°C (Refer to "Derating Curve") WORKING HUMIDITY 10 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY 40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY 8 EMC SAFETY STANDARDS Note.3 UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved IP6-0/P:3.75KVAC IP-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-0/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-0/P:3.75KVAC I/P-FG:0.0M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN61000-4-2.3.4,5,6,8.11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A MTBF 338K hrs min. MIL-HDBK-217F (25°C) IMBENSION 171*61.5*36.8 mm (L*W*H) PACKING 0.73Kg: 20pcs/15.6Kg/0.9CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN65098+1, CNS15233, GB/7000.1. 1. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 5. Refer to warranty statement. 1. Refer to EMC design refer to EMC design refer to EMC design refer to EM	INPUI	EFFICIENCY (Typ.)	91%	90.5%						
LEAKAGE CURRENT <0.75mA / 277VAC		AC CURRENT (Typ.)	0.69A / 115VAC							
PROTECTION DVER VOLTAGE 230 ~ 250V 120 ~ 140V		INRUSH CURRENT (Typ.)	COLD START 60A(twidth=275 µs measured at 50% lpeak) at 230VAC							
PROTECTION OVER VOLTAGE 230 ~ 250V Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery WORKING TEMP. WORKING TEMP. WORKING HUMIDITY ENVIRONMENT ENVIRONMENT ENVIRONMENT ENVIRONMENT SAFETY & SAFET		LEAKAGE CURRENT	<0.75mA / 277VAC							
Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery OVER TEMPERATURE Shut down o/p voltage, re-power on to recover WORKING TEMP.		SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed							
Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery OVER TEMPERATURE Shut down o/p voltage, re-power on to recover WORKING TEMP. WORKING HUMIDITY 10 ~95% RH non-condensing STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION 10 ~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY \$ SAFETY \$ SAFETY \$ SAFETY STANDARDS Note.3 UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved WITHSTAND VOLTAGE I/P-0/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-0/P, I/P-FG, 0/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A MTBF 338K hrs min. MIL-HDBK-217F (25°C) DIMENSION 171*61.5*36.8 mm (L*W*H) PACKING NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 5. Refer to warranty statement.	PROTECTION		230 ~ 250 V	120 ~ 140V						
WORKING TEMP. -40 ~ +70 °C (Refer to "Derating Curve") WORKING HUMIDITY 10 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY -40 ~ +80 °C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/ °C (0 ~ 50 °C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A MTBF 338K hrs min. MIL-HDBK-217F (25°C) DIMENSION 171*61.5*36.8 mm (L*W*H) PACKING 0.73Kg; 20pcs/15.6Kg/0.9CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 5. Refer to warranty statement.	PROTECTION	OVER VOLTAGE	Protection type: Shut down o/p voltage with auto-recovery or r	e-power on to recovery						
WORKING HUMIDITY 10 ~ 95% RH non-condensing STORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS Note.3 UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved WITHSTAND VOLTAGE I/P-O/P; 3.75KVAC I/P-FG; 2KVAC O/P-FG:0.5KVAC WITHSTAND VOLTAGE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A MTBF 338K hrs min. MIL-HDBK-217F (25°C) DIMENSION 171*61.5*36.8 mm (L*W*H) PACKING 0.73Kg; 20pcs/15.6Kg/0.9CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 5. Refer to warranty statement.		OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover							
ENVIRONMENT STORAGE TEMP, HUMIDITY -40 ~ +80°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS Note.3 UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C (≥ 60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A MTBF 338K hrs min. MIL-HDBK-217F (25°C) DIMENSION 171*61.5*36.8 mm (L*W*H) PACKING 0.73Kg; 20pcs/15.6Kg/0.9CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 5. Refer to warranty statement.		WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")							
TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS Note.3 UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A MTBF 338K hrs min. MIL-HDBK-217F (25°C) DIMENSION 171*61.5*36.8 mm (L*W*H) PACKING 0.73Kg; 20pcs/15.6Kg/0.9CUFT NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 5. Refer to warranty statement.		WORKING HUMIDITY	10 ~ 95% RH non-condensing							
VIBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS Note.3 UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C (≥ 60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A MTBF 338K hrs min. MIL-HDBK-217F (25°C) DIMENSION 171*61.5*36.8 mm (L*W*H) PACKING 0.73Kg; 20pcs/15.6Kg/0.9CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 5. Refer to warranty statement.	ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH							
SAFETY STANDARDS Note.3 UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A MTBF 338K hrs min. MIL-HDBK-217F (25°C) DIMENSION 171*61.5*36.8 mm (L*W*H) PACKING 0.73Kg; 20pcs/15.6Kg/0.9CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 5. Refer to warranty statement.		TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)							
SAFETY & EMC WITHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A WITHSTAND VOLTAGE MTBF 338K hrs min. MIL-HDBK-217F (25°C) DIMENSION 171*61.5*36.8 mm (L*W*H) PACKING 0.73Kg; 20pcs/15.6Kg/0.9CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 5. Refer to warranty statement.		VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
SAFETY & EMC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy industry level (surge L,N-FG: 4KV), criteria A MTBF 338K hrs min. MIL-HDBK-217F (25°C) DIMENSION 171*61.5*36.8 mm (L*W*H) PACKING 0.73Kg; 20pcs/15.6Kg/0.9CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Derating may be needed under low input voltages. Please check the static characteristics for more details. 3. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 5. Refer to warranty statement.		SAFETY STANDARDS Note.3	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved							
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OTHERS MTBF 338K hrs min. MIL-HDBK-217F (25°C)	EMC	EMC EMISSION	, ,							
OTHERS MTBF 338K hrs min. MIL-HDBK-217F (25°C)		EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, heavy indus	try level (surge L,N-FG: 4KV), criteria A						
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7. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 2.2uf parallel capacitor.	NOTE	 Derating may be needed under low input voltages. Please check the static characteristics for more details. Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. Refer to warranty statement. Please refer to "DRIVING METHODS OF LED MODULE". 								



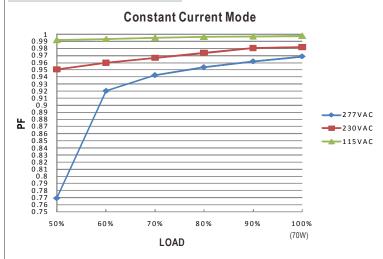






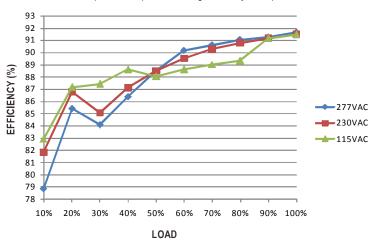


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (HLG-60H-C700A Model)

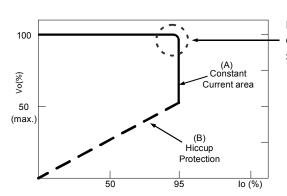
HLG-60H-C series possess superior working efficiency that up to 91% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

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

Mean Well's LED power supply with CC characteristic can be operated at CC mode (direct drive, at area (A)).



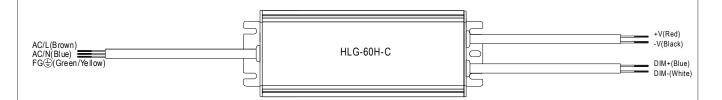
Typical LED power supply I-V curve

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 (for B-type only)



- ※ Please DO NOT connect "DIM-" to "-V".
- * Reference resistance value for output current adjustment (Typical)

Resistance value	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90Κ Ω	100 K Ω	OPEN
	Multiple drivers (N=driver quantity for synchronized dimming operation)	10KΩ/N	20K Ω /N	30K Ω /N	40K Ω/N	50K Ω /N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100KΩ/N	
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

※ 1 ~ 10V dimming function for output current adjustment (Typical)

Dimming value	1V	2V	3V	4V	5V	6V	7 V	8V	9V	10 V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

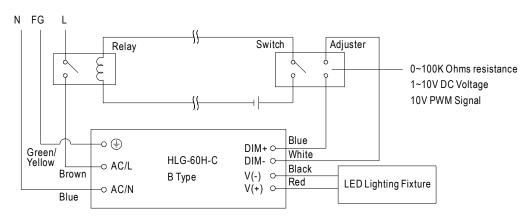
* 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KHz

Dutyvalue	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

**Using the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.

*Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture ${\tt ON/OFF}$:



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

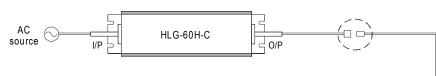
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

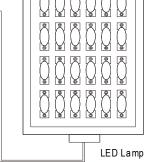
O Waterproof connector

 $Waterproof connector can be assembled on the output cable of HLG-60 H-C \ to \ operate in \ dry/wet/damp \ or \ outdoor \ environment.$

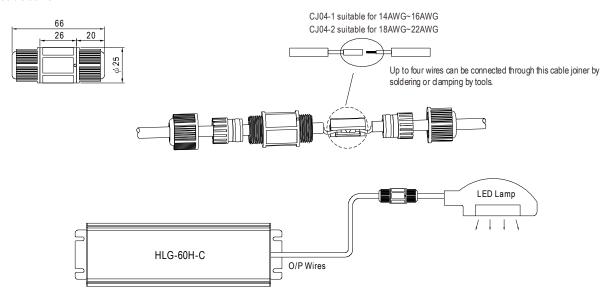


Size	Pin Configura	ition (Female)		
M12	00	000		
IVIIZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

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



O Cable Joiner



«CJ04 cable joiner can be purchased independently for user's own assembly.

MEAN WELL order No.: CJ04-1, CJ04-2.