

Dimmable Constant Voltage LED Driver 192W 12V $8 \rightarrow 16A$ RS HLG-240H-12A

RS Stock number 764-7350



■ Features :

- Universal AC input I Full range (up to 305VAC)
- Built-in active PFC function
- Protections: Short circuit I Over current I Over voltage I Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 I IP65 design for indoor or outdoor installations
- Three in one dimming function (1-10Vdc or PWM signal or resistance)
- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry I damp I wet locations
- Type "HL" for use in class I, Division 2 hazardous(Classified) location luminaires

HLG-240H-12 A Blank: IP67 rated. Cable for IIO connection.

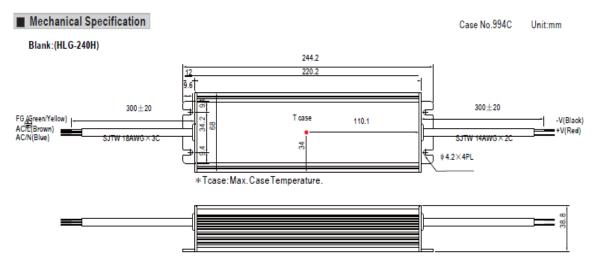
A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

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



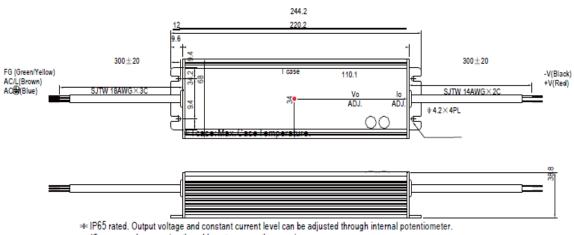
MODEL		764-7350	764-7369	764-7362	764-7366	764-7375	764-7378	764-7372	764-7381	764-7384				
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V				
	CONSTANT CURRENT REGION Note4	6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V				
	RATED CURRENT	16A	15A	12A	10A	8A	6.7A	5.72A	5A	4.45A				
	RATED POWER	192W	225W	240W	240W	240W	241.2W	240.24W	240W	240.3W				
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p				
	VOLTAGE ADJ. RANGE Note.6	11.2 ~ 12.8V	14 ~ 16V	-	22.4 ~ 25.6V	28 ~ 32V	33.5~38.5V	39 ~ 45V	44.8 - 51.2V	50 ~ 57V				
OUTPUT		Can be adjusted by internal potentiometer or through output cable												
	CURRENT ADJ. RANGE	8~16A	7.5~ 15A	6~12A	5~10A	4-8A	3.3~6.7A	2.86 ~ 5.72A	2.5~5A	2.23 ~ 4.45				
	VOLTAGE TOLERANCE Note.3	±2.5%	±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 REGULATION Note 8	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	SETUP, RISETIME Note.9	2500ms, 80m	ns at full load	230 VAC /115V	/AC		4	7.		17.				
	HOLD UP TIME (Typ.)	15ms at full load 230VAC /115VAC												
	VOLTAGE RANGE Note.5	90~305VAC 127~431VDC												
	FREQUENCY RANGE	47 ~ 63 Hz												
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load (Please refer to "Power Factor Characteristic" curve)												
INPUT	EFFICIENCY (Typ.)	90%	90%	92%	93%	93%	93%	93%	93.5%	94%				
	AC CURRENT (Typ.)	4A/115VAC 2A/230VAC 1.2A/277VAC												
	INRUSH CURRENT (Typ.)	COLD START 75A/230VAC												
	LEAKAGE CURRENT	<0.75mA/277VAC												
	100 C	95 ~ 1099L												
	OVER CURRENT Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed												
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed												
PROTECTION	700000000000000000000000000000000000000	13.5 ~ 18V		23.5~27.5V		33 - 39V	43 ~ 49V	48 ~ 54V	55 ~ 63V	60 ~ 67V				
	OVER VOLTAGE	Protection ty	AND DESCRIPTION OF THE PERSON NAMED IN	and latch off o	A STATE OF THE PARTY OF THE PAR	power on to re	cover							
	55.000 - 10.000 CONTON CO.	105°C ±5°C (TSW1) 95°C ±5°C (TSW1)												
	OVERTEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down												
	WORKING TEMP.		(Refer to "Der											
	WORKING HUMIDITY	20 ~ 95% RH non-condensing												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40~+80°C	10 ~ 95% RH	-										
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)												
	VIBRATION			cle, period for	72min each a	long X. Y. Zax	es							
	SAFETY STANDARDS Note.7	UL1012, CA	N/CSA-C22.2	No. 107.1-01,	UL8750, CSA	C22.2 No. 25	0.0-08, TUV EN							
SAFETY &	WITHSTAND VOLTAGE	No. of Contract of		G:1.88KVAC		A CONTRACTOR OF THE PARTY OF TH	1, 1100011101,	301341-1,30	19-41-5-19-abb	10400				
EMC	ISOLATION RESISTANCE			00M Ohms / 50										
	EMC EMISSION						Class C (≥50%	load) - ENR10	00.3.3					
	EMC IMMUNITY	CONTRACTOR OF STREET	active the second second second		DESCRIPTION OF THE PARTY OF THE		The same of the sa	THE RESERVE OF THE PARTY OF THE						
	PERSONAL UNI MILLIANDE DE T	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A												
	THE PART OF THE PA	207.9Khrs min. MIL-HDBK-217F (25°C)												
OTHERS	MTBF DIMENSION		Michigan Company of the Company of t	BK-217F (25°C) (HLG-240H-Bla	factoria de la companya del companya de la companya del companya de la companya d	251460*20 0	m (L'W'H)(HLG	2404.0						





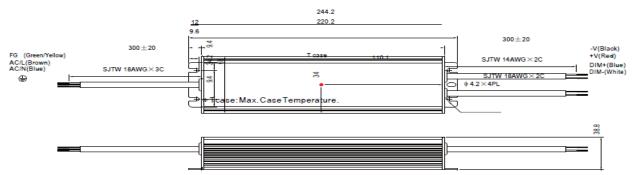
※IP67 rated. Cable for I/O connection.

A Type:(HLG-240H-_A)



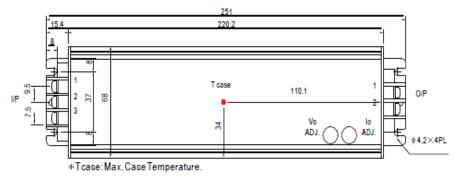
(Can access by removing the rubber stopper on the case.)







C Type:(HLG-240-_C)





Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)

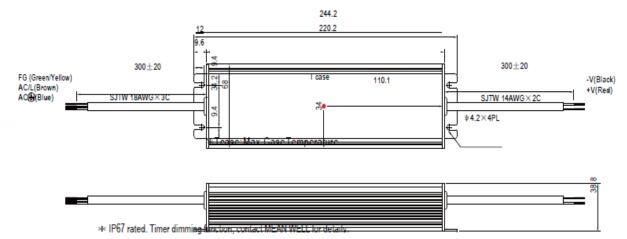
AC Input Terminal Pin No. Assignment

Pin No.	Assignment
1	FG -
2	AC/L ⁱ
3	AC/N

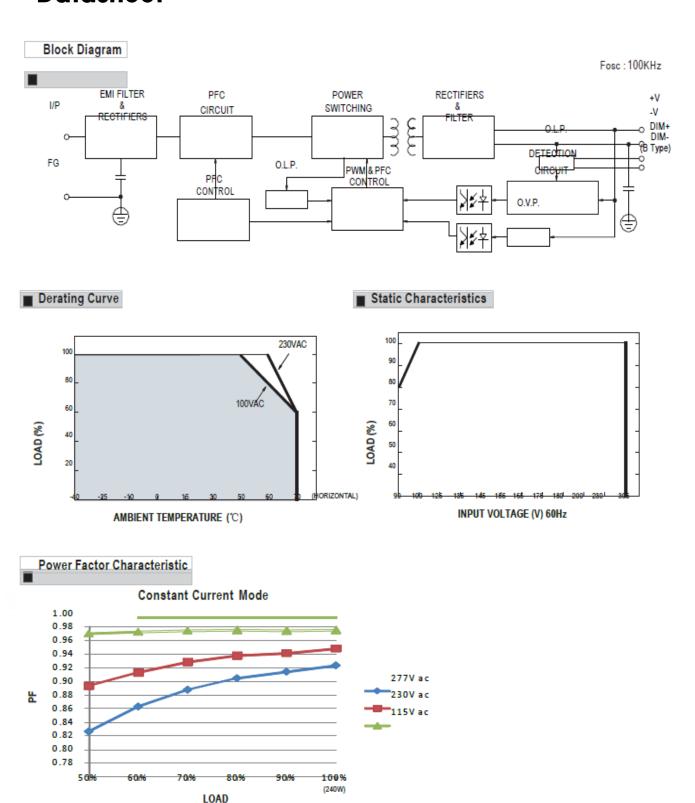
DC Output Terminal Pin No. Assignment

Pin No.	Assignment
1	-V
2	+V

D Type(option):(HLG-240H-_D)



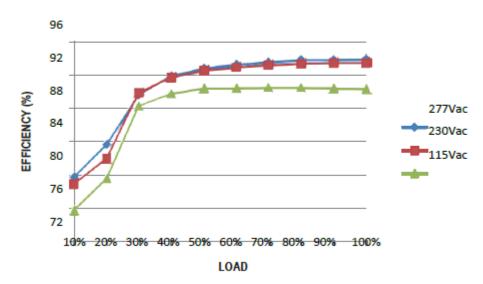






EFFICIENCY vs LOAD (48V Model)

HLG-240H series possess superior working efficiency that up to 93.5% can be reached in field applications.

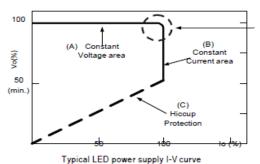


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

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

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



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

■ DIMMING OPERATION (for B-type only)





- → Built-in 3 in 1 dimming function, IP6/ rated. 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-.
- ⇒Ne 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	90K Ω	100K Ω	OPEN
		10K Ω /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	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

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

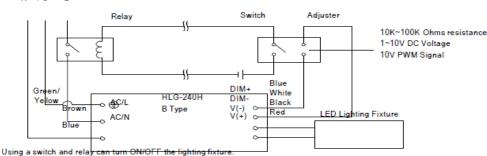
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

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

Duty value	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 ON/OFF:



- 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

Waterproof connector

N FG

Waterproof connector can be assembled on the output cable of HLG-240H to operate in dry/wet/damp or outdoor environment.

