

150W Single Output Switching Power Supply

HLG-150H series



Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 94%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / 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 / damp / wet locations
- 5 years warranty (Note.10)



HLG-150H-12 A Blank : IP67 rated. Cable for I/O connection.

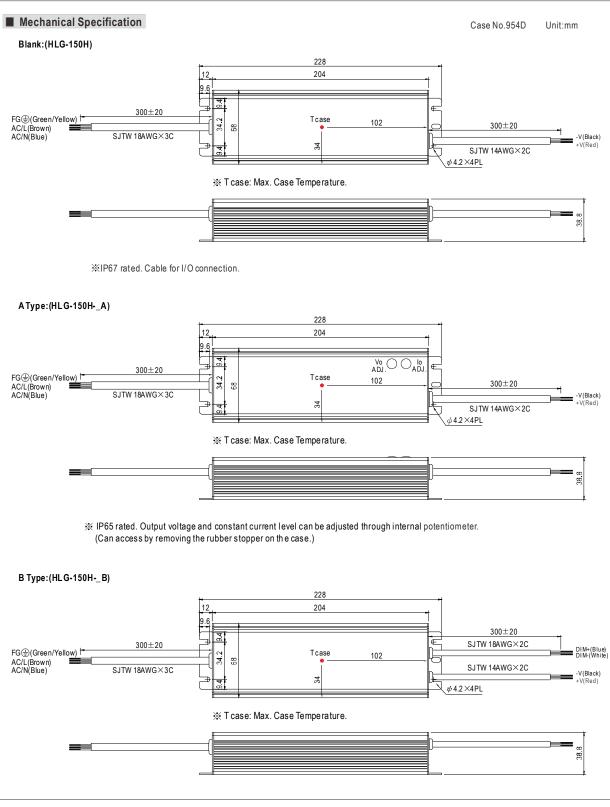
A : IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer. B : IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance. D (option, safety pending) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

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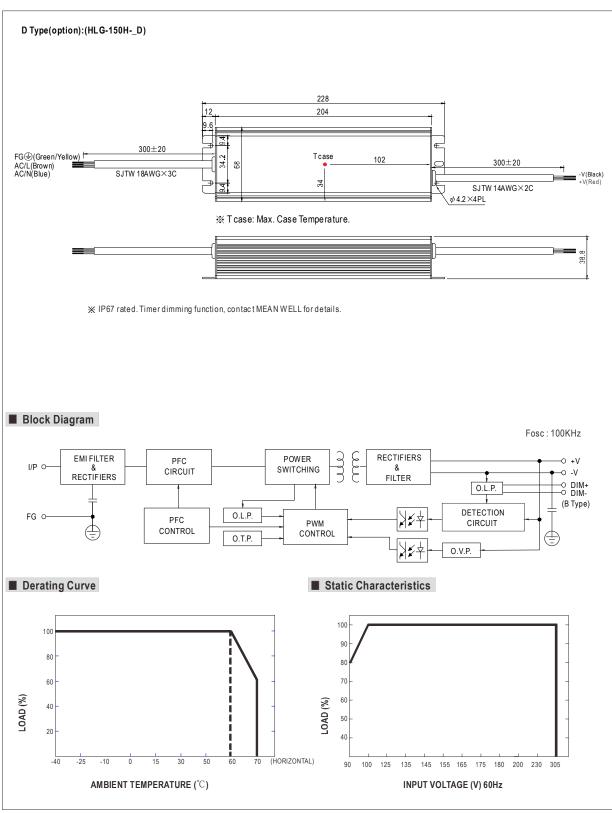
MODEL		HLG-150H-12	HLG-150H-15	HLG-150H-20	HLG-150H-24	HLG-150H-30	HLG-150H-36	HLG-150H-42	HLG-150H-48	HLG-150H-54				
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V				
	CONSTANT CURRENT REGION Note.4		7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V				
	RATED CURRENT	12.5A	10A	7.5A	6.3A	5A	4.2A	3.6A	3.2A	2.8A				
	RATED POWER	12.3A	150W	150W	151.2W	150W	151.2W	151.2W	153.6W	151.2W				
							200mVp-p	200mVp-p						
	RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE Note.6		150mVp-p 13.5 ~ 17V	150mVp-p 17 ~ 22V	150mVp-p 22 ~ 27V	200mVp-p 27 ~ 33V	33 ~ 40V	200117p-p 38 ~ 46V	200mVp-p 43 ~ 53V	200mVp-p 49 ~ 58V				
OUTPUT	VOLIAGE ADJ. KANGE Note.6					21~330	33 ~ 40 V	30~40V	43 ~ 53 V	49~56V				
OUTPUT	CURRENT ADJ. RANGE	7.5 ~ 12.5A	ed by internal p 6 ~ 10A	4.5 ~ 7.5A	3.8 ~ 6.3A	3~5A	2.5 ~ 4.2A	2.16 ~ 3.6A	1.92 ~ 3.2A	1.68 ~ 2.8A				
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	$\pm 1.0\%$	±1.0%	±1.0%	$\pm 1.0\%$				
	LINE REGULATION	±0.5%	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$	±0.5%	±0.5%	$\pm 0.5\%$				
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%				
	SETUP, RISE TIME Note.8	1000ms,50ms/115VAC 500ms,50ms/230VAC at full load ; B type 1000ms,200ms/115VAC 500ms,200ms/230VAC at 9												
	HOLD UP TIME (Typ.)	16ms at full load 230VAC / 115VAC												
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)												
	TOTAL HARMONIC DISTORTION	THD<20% when output loading \ge 60% at 115VAC/230VAC input and output loading \ge 75% at 277VAC input												
INPUT	EFFICIENCY (Typ.)	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%				
	AC CURRENT (Typ.)	1.7A / 115VA			0.7A/277VAC			• • • •	• • • •					
	INRUSH CURRENT (Typ.)					230VAC								
	LEAKAGE CURRENT		COLD START 65A(twidth=425// s measured at 50% lpeak) at 230VAC											
		<0.75mA / 277VAC												
PROTECTION	OVER CURRENT	95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed												
	SHORT CIRCUIT	Constant curr	ent limiting, rea	covers automa	tically after fau	It condition is re	emoved							
		14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V				
	OVER VOLTAGE	Protection typ	e : Shut down	o/p voltage wit	h auto-recover	y or re-power o	n to recovery							
	OVER TEMPERATURE	Shut down o/	o voltage, reco	vers automatic	ally after temp	erature goes do	wn							
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20 ~ 95% RH non-condensing												
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH												
	TEMP. COEFFICIENT	±0.03%/°C (0∼50°C)											
	VIBRATION	· · · · · · · · · · · · · · · · · · ·	. /	le period for	72min each al	ong X, Y, Z axes	3							
	VIDICATION							IP67 .I61347	-1 .161347-2-1	3 annroved				
	SAFETY STANDARDS Note.7	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent IP65 or IP67, J61347-1, J61347-2-13 approve design refer to UL60950-1, TUV EN60950-1												
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:0.5KVA	C								
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00 M Ohms / 50	0VDC/25°C/	70% RH								
	EMC EMISSION	Compliance to	o EN55015, EN	155022 (CISPF	R22) Class B, E	N61000-3-2 C	lass C (≧60%	load) ; EN610	00-3-3					
	EMC IMMUNITY	Compliance to	o EN61000-4-2	,3,4,5,6,8,11,	EN61547, EN5	5024, light indu	ıstry level (surç	ge 4KV), criter	ia A					
OTHERS	MTBF	192.2K hrs min. MIL-HDBK-217F (25°C)												
	DIMENSION	228*68*38.8n	nm											
	PACKING	1.15Kg; 12pc	s/14.8Kg/0.8Cl	JFT										
NOTE	 All parameters NOT specia Ripple & noise are measure Tolerance : includes set up Please refer to "DRIVING N Derating may be needed ui A type only. Safety and EMC design ref Length of set up time is me The power supply is consid complete installation, the fit Refer to warranty stateme To diffill requirements of the 	ed at 20MHz o tolerance, line METHODS OF nder low input er to EN60598 asured at cold ered as a com nal equipment int.	f bandwidth by regulation and LED MODUL voltages. Plea 6-1, subject 87 first start. Tur ponent that w manufacturers	y using a 12" t d load regulati E". se check the s 50(UL), CNS1 ning ON/OFF ill be operated must re-quali	wisted pair-wi on. static characte 5233, GB7000 the power sup i in combinatio fy EMC Direct	re terminated v ristics for more 0.1, FCC part1 0.1, FCC part1 ply may lead t n with final equ ive on the com	vith a 0.1uf & 4 details. 8. o increase of f upment. Since plete installation	47uf parallel ca the set up time EMC perform on again.	e. nance will be a					



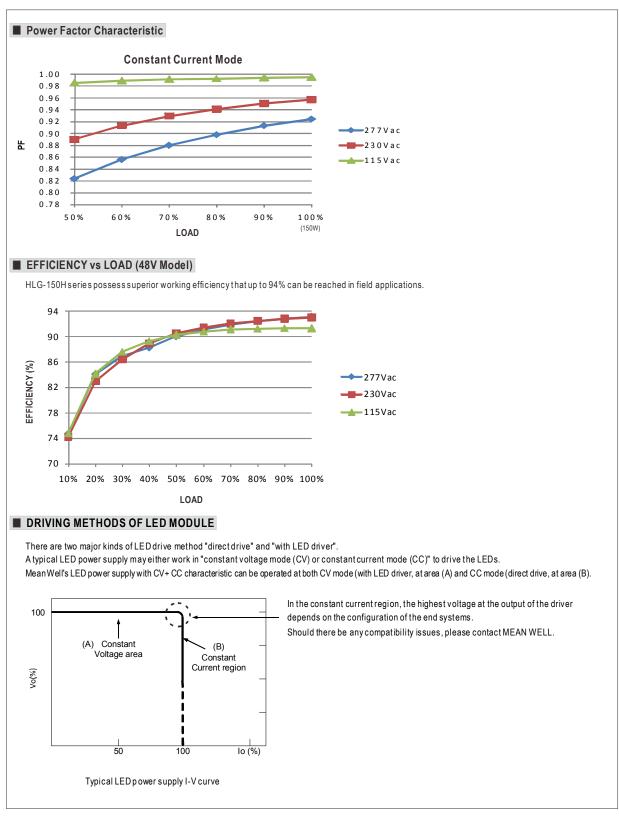




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⊕(Green/Yell L(Brown) N(Blue)	ow)					Н	LG-150H						
1∼ 10Vd ≪ Please D	in 1 dimming functi c or 10V PWM sign O NOT connect "DI	al betwee M-" to "-\	en DIM+a /".	nd DIM			can be ad	djusted tr	nrough ou	tput cabl	e by conr	necting a resis	tance or
Reference	e resistance value Single driver	for outpu 10K Ω	t current a	adjustme 30K Ω	nt (Typic 40K Ω	al) 50KΩ	60K Ω	70Κ Ω	80K Ω	90K Ω	100K Ω	OPEN	1
Resistance value	Multiple drivers (N=driver guantity for synchronized											0FEN	
Percentage	dimming operation) e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%	
	limming function fo	r output c		ustment	(Typical))							1
Dimming va	-	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN	
Percentage	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%	
10V PWN	A signal for output c	urrent ac	ljustment	(Typical)	: Freque	ncyrange	e:100Hz	~ 3KHz					1
Duty value		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN	
Percentage	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%	
Direct cor	nnecting to LEDs is	suggeste	ed, but is i	not suital	ole for us	•	supply u onal drive						
	nnection diagram fo					ing additi		ers.	1~1	~100K O 0V DC Vc PWM Sig		stance	



