

Lighting Accessories



SKU: 1000339 SKU: 1510173



SKU: 1000321 SKU: 1000354



SKU: 1010600 SKU: 1010667



SKU: 1500030



SKU: 1050593



SKU: 1050601 SKU: 1090496





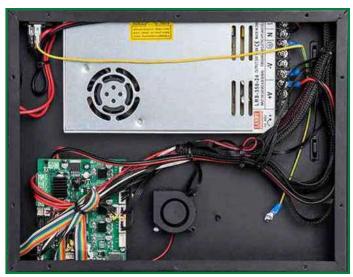


Nothing But LED carries a variety of Meanwell drivers to suit a plethora of needs. Meanwell drivers vary in wattage and/or voltage. Some are encased for outdoor use and some are for indoor use only. Our special laptop-style driver is excellent for use with modules and other products. Many of the drivers we carry have built-in mechanisms that keep them from short circuit, overload, over voltage, and/or over temperature.



SKU#	Model #	Working Temp	Environment	Output Voltage	IP	Efficiency
1000339	BLT-60-12	-22°F/158°F	Outdoor	12V DC	N/A	83%
1510173	BLT-100-24	32°F/104°F	Indoor	24V DC	N/A	89%
1000321	MW LPV 60-12	-22°F/158°F	Outdoor	12V DC	IP67	83%
1000354	MW LPV 60-24	-22°F/158°F	Outdoor	24V DC	IP67	86%
1010600	MW LPV 100-12	-13°F/158°F	Outdoor	12V DC	IP67	85%
1010667	MW LPV 100-24	-13°F/158°F	Outdoor	24V DC	IP67	88%
1060096	MW LPVL 150-12	-13°F/158°F	Outdoor	12V DC	IP67	87%
1500030	MW LPVL 150-24V	-13°F/158°F	Outdoor	24V DC	IP68	87%
1050593	MW HLG 150-12	-40°F/158°F	Outdoor	12V DC	IP67	91.50%
1050601	MW HLG 240-12	-40°F/158°F	Outdoor	12V DC	IP65	90%
1090496	MW HLG 240-24	-40°F/158°F	Outdoor	24V DC	IP65	90%
1500011	MW HLG 320-24	-40°F/158°F	Outdoor	24V DC	IP65	90%
1500836	MW LRS-200-12V	-4°F/122°F	Indoor	24V DC	N/A	87%
1500837	MW LRS-350-12V	-4°F/122°F	Indoor	12V DC	N/A	85%
1510616	MW-LRS-350-24V	-4°F/122°F	Indoor	24V DC	N/A	87%







Lighting Accessories



SKU: 1000339 - BLT-60-12

- -22°F/158°F Working Temp
- Outdoor Environment

- 12V DC Output Voltage
- 83% Efficiency



Lighting Accessories



SKU: 1510173 - BLT-100-24

- 32°F/104°F Working Temp
- Indoor Environment

- 24V DC Output Voltage
- 89% Efficiency



Lighting Accessories



Features:

- Constant voltage design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over load / Over voltage
- · Cooling by free air convection
- Fully encapsulated with IP67 level (Note.8)
- · Fully isolated plastic case
- Class 2 power unit
- Pass LPS
- · Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.7)
- 100% full load burn-in test
- · Low cost, high reliability

SPECIFICATION

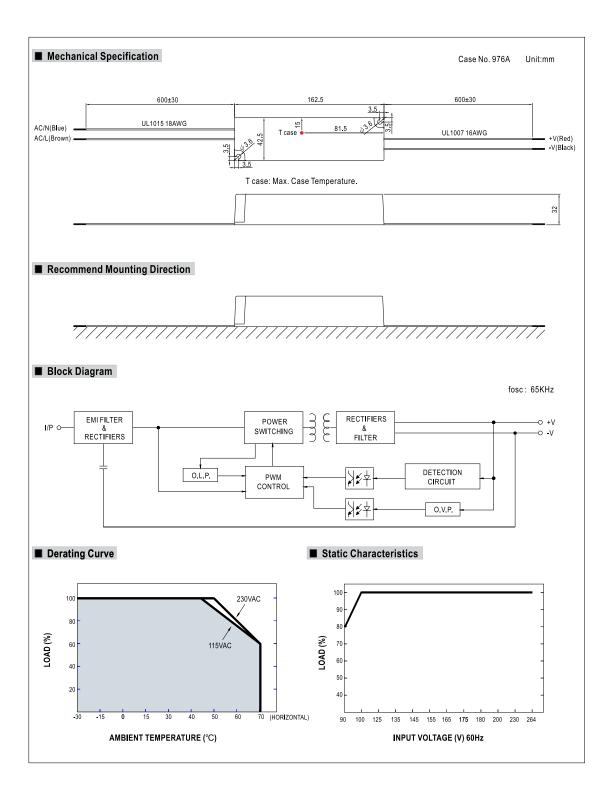
 2 years warranty 	(2) 13003(Pail 2/38013)					
LPS (except for 5V) IP67	R-41027766	(for 48V only)	C TAU US	EHL	CB	CE

MODEL		LPV-60-5	LPV-60-12	LPV-60-15	LPV-60-24	LPV-60-36	LPV-60-48				
	DC VOLTAGE	5V	12V	15V	24V	36V	48V				
	RATED CURRENT	8A	5A	4A	2.5A	1.67A	1.25A				
	CURRENT RANGE	0 ~ 8A	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.67A	0 ~ 1,25A				
	RATED POWER	40W	60W	60W	60W	60W	60W				
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p				
OUTPUT	VOLTAGE TOLERANCE Note.3		±5.0%		,	The second party of the se	· · · · · · · · · · · · · · · · · · ·				
	LINE REGULATION	±1.0%									
	LOAD REGULATION	±6.0%	±2.0%								
		500ms, 20ms / 230VAC	ioms, 20ms / 230VAC 500ms, 20ms / 115VAC at full load(for 5~36V); 500ms, 30ms / 230VAC 500ms, 30ms / 115VAC at full load(for 48V)								
	HOLD UP TIME (Typ.)	-									
	VOLTAGE RANGE Note.4	90 ~ 264VAC 12	27 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	76%	83%	83%	86%	86%	86%				
INPUT	AC CURRENT (Typ.)	1.2A/115VAC 1A/2									
	INRUSH CURRENT(Typ.)	COLD START 60A(tv	OLD START 60A(twidth=525µs measured at 50% lpeak) at 230VAC								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	0.25mA / 240VAC									
		110 ~ 150% rated ou	tout power								
	OVER LOAD	Protection type : Hice	cup mode, recovers a	utomatically after fa	ult condition is removed						
PROTECTION		5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V	55.2 ~ 64.8V				
	OVER VOLTAGE	Protection type : Shu	t down o/p voltage, re	power on to recove	er						
	WORKING TEMP.	-30 ~ +70°C (Refer to	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-co	ndensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95	% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C	C)								
	VIBRATION	10 ~ 500Hz, 2G 10m	in./1cycle, period for	60min. each along >	K, Y, Z axes						
	SAFETY STANDARDS	CAN/CSA C22.2 No		r LPV-60-5,LPV-60-	, CSA C22.2 No. 207-M 48), BIS IS15885(for L						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohm	s / 500VDC / 25°C/ 70)% RH							
	EMC EMISSION	Compliance to EN55	032 (CISPR32) Class	B, EN61000-3-2 Cl	ass A, EN61000-3-3, EA	C TP TC 020					
	EMC IMMUNITY	Compliance to EN61	000-4-2,3,4,5,6,8,11,	EN55024, light indu	stry level, criteria A, EA	C TP TC 020					
	MTBF	732Khrs min. MIL	-HDBK-217F (25°C)								
OTHERS	DIMENSION	162.5*42.5*32mm (L	*W*H)								
	PACKING	0.4Kg; 32pcs/13.8Kg	/0.63CUFT								
NOTE	All parameters NOT specially Ripple & noise are measured Tolerance: includes set up to	at 20MHz of bandwid	th by using a 12" twi	sted pair-wire termin							

- 3. Tolerance includes set up tolerance, line regulation and load regulation.
 4. Derating may be needed under low input voltage. Please check the static characteristics for more details.
 5. 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.
 6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
 7. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.
 8. 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).
 9. Products sourced from the Americas regions may not have the TUV/BIS/CCC logo. Please contact your MEAN WELL sales for more information.

- 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
 This product is not intended for LED applications in the EU.(In the EU NPF/LPF/XLG series are recommended.)
- 12.聚o fulfill requirements of latest ErP regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to mains ※ 梁roduct ※ability 和sclaimer: For ※etailed ※nformation, ※please ※efer ※extps://www.meanwell.com/serviceDisclaimer.aspx







Lighting Accessories



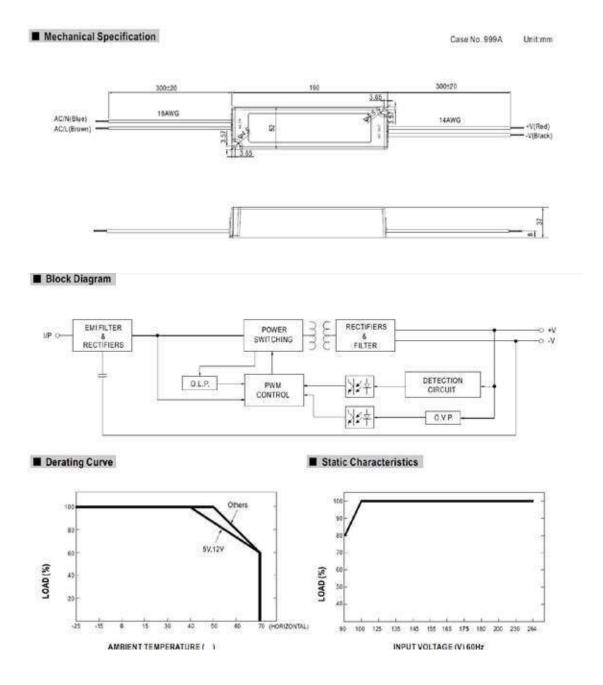
Features:

- · Constant voltage design
- . Universal AC input / Full range
- * Fully encapsulated with IP67 level (Note 8)
- Withstand 300VAC surge input for 5 seconds
- . Protections: Short circuit / Overload / Over voltage
- Fully isolated plastic case
- · Cooling by free air convection
- 100% full load burn-in test
- · Low cost, high reliability
- Suitable for LED lighting and moving sign applications(Note 7.)
- · 2 years warranty

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MODEL	MERCO CONTRACTOR OF THE PROPERTY OF THE PROPER	LPV-100-5	LPV-100-12	LPV-100-15	LPV-100-24	LPV-100-36	LPV-100-48					
	DC VOLTAGE	5V	12V	15V	24V	36V	48V					
	RATED CURRENT	12A	8.5A	6.7A	4.2A	2.8A	2.1A					
	CURRENT RANGE	0 ~ 12A	0 = 8.5A	0 - 6.7A	0 - 4.2A	0 = 2.8A	0 - 2.1A					
	RATED POWER	60W	102W	100.5W	100.8W	100.8W	100.8W					
	RIPPLE & NOISE (max.) Note.2	0mVp-р 120mVp-р 120mVp-р 150mVp-р 150mVp-р 150mVp-р										
OUTPUT	VOLTAGE TOLERANCE Note.3	18.0% 15.0%										
	LINE REGULATION	11,0%										
	LOAD REGULATION	16.0%	+6.0% ±2.0%									
	SETUP, RISE TIME Note.6	2000ms, 25ms / 2	230VAC 2000ms, 25	ims / 115VAC								
	HOLD UP TIME (Typ.)	50ms/230VAC 14ms/115VAC at full load										
	VOLTAGE RANGE Note.4	90 - 284VAC 127 - 370VDC										
	FREQUENCYRANGE	47 - 63Hz										
TOLUNIE -	EFFICIENCY (Typ.)	80%	85%	87%	88%	88%	89%					
INPUT	AC CURRENT	2.2A/115VAC 1.2A/23UVAC										
	INRUSH CURRENT(max.)	COLD START 3GA/115VAC 75A/23UVAC										
	LEAKAGE CURRENT	0.25mA / 240VAC										
		110 ~ 150% rated output power										
	OVER CURRENT	er visik service er excessorable er	THE RESERVE OF THE PARTY OF THE	s automatically after fa	sult condition is remov	ed						
PROTECTION	STATEMENT OF	5.75 - 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 - 48.6V	55.2 - 64.8V					
	OVER VOLTAGE	Protection type: Shut down oip soltage, re-power on to recover										
1	WORKING TEMP.	-25 - +70°C (Refer to output load denting curve)										
	WORKING HUMIDITY	20 = 90% RH non-condensing										
ENVIRONMENT	STORAGE TEMP. HUMIDITY	-40 - +80°C, 10 - 95% RH										
	TEMP. COEFFICIENT	±0.03%/°C (0 ~50°C)										
	VIBRATION	10 - 500Hz, 2G 10min /1cycle, period for 60min, each along X, Y, Z axes										
	SAFETY STANDARDS	IP67 approved: I	Design refer to TUVE	N60950-1, EN61347-2	13							
	WITHSTAND VOLTAGE	I/P-O/P-3KVAC				-8						
SAFETY&	ISOLATION RESISTANCE	UP-0/P > 100M C	hms /500VDC /25°C	270% RH								
EMC	EMI CONDUCTION & RADIATION	Compliance to El	N55022 (CISPR22) C	ass R								
41170	HARMONIC CURRENT	Access of the second second	NAMES OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.	-, 80% load), EN61000	.3.3							
	EMS IMMUNITY	THE RESERVE OF THE PERSON NAMED IN	THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	11; ENV50204, EN550		rel. criteria A						
	MTBF	A STATE OF THE PARTY OF THE PAR	MIL-HDBK-217F (25°	Contract Con	COLUMN POST CONTRACT	334 (300 300 300 400)						
OTHERS	DIMENSION	190*52*37mm (L	the second section is not been deadless.	2								
account.	PACKING											
NOTE	Ripple & noise are measure Tolerance : includes set up Deating may be needed ut The power supply is consided somplete installation, the fir Length of set up time is me In the European market the FN61000-3-2 Class C.	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12° twisted par-wire terminated with a 0.1 of & 47 of parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Desirting may be needed under low input voltage. Please check the static characteristics for more details. The power supply is considered as a component that wit be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must requality EMC Directive on the complete installation again. Length of set up time is measured at first cold start. Tuming ON/OFF the power supply may lead to increase of the set up time. In the European market this product is only suitable for LED lighting applications that don't have to comply with the harmonic current requirements of										







Lighting Accessories



SKU: 1060096 - MW LPVL 150-12



SKU: 1500030 - MW LPVL 150-24V



Lighting Accessories





Features

- · Constant voltage design
- 90~132VAC input for LPVL-150 180~305VAC input for LPV-150
- Fully encapsulated with IP67 level (Note.8)
- Class II power unit, no FG
- Protections: Short circuit/Overload/Over voltage/ Over temperature
- · Fully isolated plastic case
- Fanless design, cooling by free air convection
- 100% full load burn-in test
- · Low cost, high reliability
- Listed in UL Sign Component Manual (SAM)
- Type "HL" for use in class I, Division 2 hazardous (Classified) location luminaires for LPVL-150
- · 2 years warranty

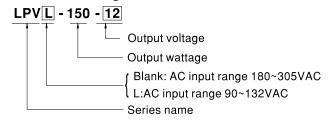
Applications

 Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)

Description

LPV-150 and LPVL-150 are 150W single output power supplies that specifically and perfectly work for LED lighting and LED moving sign applications. As a class II power unit, these two series are housed with the UL 94V-0 rated flame retardant plastic enclosure. The IP67 design allows every model to fit the use at dry, damp and wet locations. Both series are constant voltage mode design that various models with 12V, 15V, 24V, 36V and 48V are offered for LPV-150 where as 12V and 24V are provided for LPVL-150.

■ Model Encoding





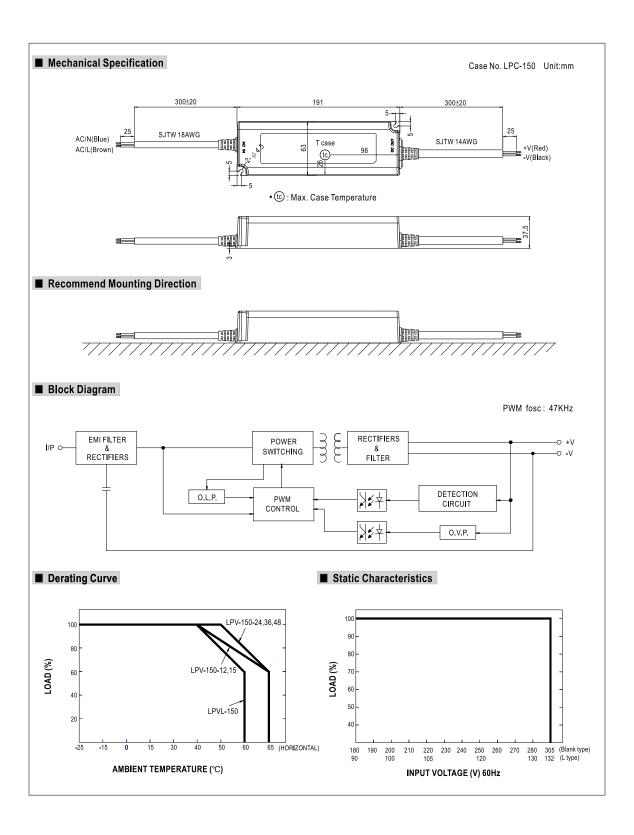
Lighting Accessories

SPECIFICATION

MODEL	-		LPV -150-12	LPV-150-15	LPV □ -150-24	LPV-150-36	LPV-150-48					
	DC VOLTAGE		12V	15V	24V	36V	48V					
	RATED CURRENT		10A	8A	6.3A	4.2A	3,2A					
	CURRENT RANGE		0 ~ 10A	0 ~ 8A	0 ~ 6.3A	0 ~ 4.2A	0 ~ 3.2A					
	RATED POWER		120W	120W	151.2W	151.2W	153.6W					
	RIPPLE & NOISE (r	nax) Note 2		200mVp-p	200mVp-p	200mVp-p	200mVp-p					
DUTPUT	VOLTAGE TOLERA			2001114 p	2001117 β	200111111111111111111111111111111111111	2001117 p					
	LINE REGULATION		±1.0%									
	LOAD REGULATIO		±2.0%									
	SETUP, RISE TIME		LPV-150: 500ms, 50ms	/ 230VAC 500ms	50ms / 277VAC: PVI -	150: 1500ms, 50ms / 11:	5VAC					
	HOLD UP TIME (Ty		LPV-150: 18ms/230VAC			50: 10ms/115VAC at fu l l l						
	VOLTAGE RANGE				LPVL-150: 90~132VAC	or remortion to the actual t						
	FREQUENCY RAN		LPV-150: 180 ~ 305VAC 254 ~ 431VDC; LPVL-150: 90~132VAC 47 ~ 63Hz									
	EFFICIENCY (Typ.)		87%	88%	89%	89%	90%					
	AC CURRENT		LPV-150: 1.7A/230VAC		LPVL-150: 3.0A/115VAC	0070	3070					
		Blank type		· · · · · · · · · · · · · · · · · · ·	at 50% Ipeak) at 230VAC							
MOUT	INRUSH CURRENT (Typ.)	L type	`									
INPUT	(-76.)	, pc		•	at 50% Ipeak) at 115VAC							
	MAX. No. of PSUs	Blank type	2 units (circuit breaker	units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC								
	on 16A CIRCUIT											
	BREAKER	L type	1 units (circuit breaker	units (circuit breaker of type B) / 2 units (circuit breaker of type C) at 115VAC								
	LEAKAGE CURRE	NIT	LDV 150, 0.25m A / 240	VAC LDV// 15/	0.0 25mA / 120\/AC							
	LEARAGE CURRE	N I	LPV-150: 0.25mA / 240VAC									
	OVERLOAD		110 ∼ 150% rated output power Protection type : Hiccup mode, recovers automatica∥y after fault condition is removed									
ROTECTION			13.5 ~ 18V	17 ~ 25V	27 ~ 35V	40 ~ 49V	52 ~ 63V					
KOTEGIJON	OVER VOLTAGE		Protection type : Shut d			40~490	32 ~ 03 V					
	OVED TEMPEDATI	IDE	•		ally after temperature goes o	louin						
	OVER TEMPERATU	JKE			ally after temperature goes t	IOWII						
	WORKING TEMP	T)/	-25 ~ +65°C (Refer to " 20 ~ 90% RH non-cond									
ENVIDONMENT	WORKING HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH									
ENVIRONMENT	TEMP. COEFFICIE	STORAGE TEMP., HUMIDITY		±0.03%/°C (0 ~ 40°C for LPV-150-12,15 and LPVL-150-12,24;0~50°C for LPV-150-24,36,48)								
		N I										
	VIBRATION	I	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes UL8750,CSA C22.2 No 250.13-12,UL879,CSA C22.2 No.207-M89,BIS IS15885(for LPV-150-12,24 only),EAC TP TC 004,									
	SAFETY	Blank type			SA C22.2 No.207-M89,BIS IS	5885(for LPV-150-12,24	only),EAC TP TC 004,					
	STANDARDS	Lituna		IP67;IEC/EN 62368-1 approved.								
	WITHOTAND VOLT	L type	111	UL8750(type"HL"),CSA C22.2 No 250.13-12,UL879,CSA C22.2 No.207-M89,IP67 approved								
SAFETY &	WITHSTAND VOLT		I/P-O/P:3KVAC	500 /DO / 0500 / 300	DII							
EMC	ISOLATION RESIS		I/P-O/P:>100M Ohms /			/ I	A O TD TO 000					
	EMC EMISSION	Blank type	-		, EN61000-3-2 Class A(≤80%	₀ ioaa), EN61000-3-3, E	AC 17 10 020					
		L type	Compliance to FCC par		NEEOOA light in decators last	witeria A. EAO ED EO CO	1					
	EMC IMMUNITY	Blank type	· ·		N55024, light industry level, o	mena A, EAC TP TC 020	J					
	MTDF	L type	-		ight industry level, criteria A							
OTHERS	MTBF		703Khrs min. MIL-H	/								
	DIMENSION		191*63*37.5mm (L*W*I		LPVL-150: 0.85Kg;20pc	0/17Ka/0.05CUET						
	PACKING	IOT appoint	LPV-150: 0.74Kg;20pc		0, 1		aporaturo					
IOTE					C for LPVL) input, rated load							
			d at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. olerance, line regulation and load regulation.									
		•	-	-	characteristics for more details	S.						
					ombination with final equipme		nce will be affected by the					
	· ·				IC Directive on the complete	-						
					power supply may lead to incr	ease of the set up time.						
			tdoor use without direct s		d =4 F°C (4000	ala fau annuation altitude	hinhau than 0000(05005)					
			•		d of $5^{\circ}\mathbb{C}/1000$ m with fan mod ease refer our user manual be		nigner than 2000m(6500ff).					
				isialialion caulion, ple	sass rerer our user manual be	nore using.						
	nithe"/www.tuear	I IWEII.COITI/U	pload/PDF/LED_EN.pdf									

- 10. This product is not intended for LED applications in the EU.(In the EU NPF/LPF/XLG series are recommended.)
- 11. To fulfill requirements of latest ErP regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to mains.
- X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx







Lighting Accessories

























Features

- · 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

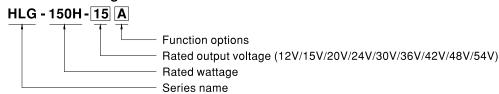
Applications

- 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-150H series is a 150W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-150H 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°C ~ +90°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-150H 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	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



Lighting Accessories

SPECIFICATION

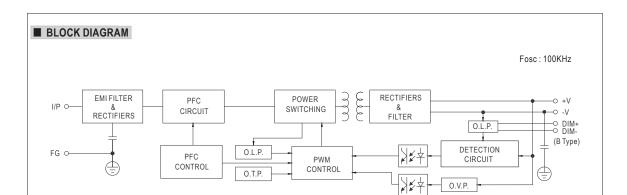
MODEL		HLG-150H-12	HLG-150H-15	HLG-150H-20	HLG-150H-24	HLG-150H-30	HLG-150H-36	HLG-150H-42	HLG-150H-48	HLG-150H-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4	6 ~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V			
	RATED CURRENT	12.5A	10A	7.5A	6.3A	5A	4.2A	3.6A	3.2A	2.8A			
	RATED POWER	150W	150W	150W	151.2W	150W	151.2W	151.2W	153.6W	151.2W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p			
		Adjustable fo	r A/AB-Type o	nly (via built-ir	potentiomete	er)							
	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V			
OUTPUT			r A/AB-Type o	nlv (via built-ir	potentiomete								
	CURRENT ADJ. RANGE		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		±2.0%	±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	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
		1000ms,200r		500ms,200ms		1 = 0.070		-0.070		1 - 0.070			
	HOLD UP TIME (Typ.)	-		3001115,2001115	1230 VAC								
	HOLD OF TIME (Typ.)	16ms / 115VAC, 230VAC 90 ~ 305VAC 127 ~ 431VDC											
	VOLTAGE RANGE Note.5	90 ~ 305VAC			IO!! anation)								
		(Please refer to "STATIC CHARACTERISTIC" section)											
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)		F≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC @ full load										
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)											
	TOTAL HARMONIC DISTORTION		_			≧75% / 277VA	C)						
INPUT		(Please refe	r to "TOTAL H	ARMONIC DIS	TORTION (TH	HD)" section)							
	EFFICIENCY (Typ.)	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%			
	AC CURRENT (Typ.)	1.7A / 115VA	C 0.75A/	230VAC	0.7A / 277VAC								
	INRUSH CURRENT (Typ.)	COLD START	COLD START 65A(twidth=425µs measured at 50% Ipeak) at 230VAC; Per NEMA 410										
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circui	4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC										
	LEAKAGE CURRENT	<0.75mA/27	7VAC										
		95 ~ 108%											
	OVER CURRENT		rent limiting re	covers automa	tically after fau	It condition is	emoved						
-	SHORT CIRCUIT				•	It condition is							
PROTECTION	OHORT ORGOTT	14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V			
	OVER VOLTAGE		p voltage with a				1 101	11 001	104 001	100 001			
	OVER TEMPERATURE					erature goes d	own						
	WORKING TEMP.					s TEMPERATI							
	MAX. CASE TEMP.			e lelel to OO	IF OT LOAD V	5 I LIVII LIVATV	JIL SECTION)						
		Tcase= +90°C 20 ~ 95% RH non-condensing											
ENVIRONMENT	WORKING HUMIDITY			ig									
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,											
	TEMP. COEFFICIENT	±0.03%/°C	. ,										
	VIBRATION					ong X, Y, Z axe							
	SAFETY STANDARDS	IP65 or IP67;		347-2-13(exce	pt for B,AB and			-13 independer 24,36,54A/B on					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KV <i>A</i>	(C							
EMC	ISOLATION RESISTANCE												
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥ 60%); EN61000-3-3, GB17743 and GB17625.1, EAC TP TC 020											
	EMC IMMUNITY					ight industry leve	el (surge immunit	ty Line-Earth 4KV	/, Line-Line 2KV)	, EAC TP TC 02			
	MTBF	192.2K hrs m	in. MIL-HDE	8K-217F (25°C)								
OTHERS	DIMENSION	228*68*38.8r	nm										
	PACKING	1.15Kg; 12pc	s/14.8Kg/0.8C	JFT									
NOTE	1. All parameters NOT special	y mentioned a	re measured a	t 230VAC inpi	ut, rated curre	nt and 25°C o	f ambient temp	oerature.					
NOIL	2. Ripple & noise are measure		-	-		e terminated w	ith a 0.1uf & 4	7uf para ll el cap	oacitor.				
	3. Tolerance : includes set up				n.								
	Please refer to "DRIVING M				ATIO 01145	OTEDIOTIC:							
	5. De-rating may be needed up		-										
	 Length of set up time is mea The driver is considered as 			•					he affected by	v the			
	complete installation, the fin								DE ANGUIEU D	y u io			
	8. To fulfill requirements of the			, ,				•	ermanentlv				
	connected to the mains.			ر	451								
	9. This series meets the typica	l life expectano	cy of >62,000	nours of opera	tion when Tca	se, particularly	(tc) point (or	TMP, per DLC), is about 80°	or less.			
	10. Please refer to the warrant	-			•								
	11. The ambient temperature of	derating of 3.5°	C/1000m with	fanless mode	Is and of 5°C/	1000m with far	n models for o	nerating altitude	higher than 2	2000m/6500f			

- 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

 ※ 张roduct:ێability 郑isclaimer: For ※etailed ※formation, ※ease ※efer ※ ※ttps://www.meanwell.com/serviceDisclaimer.aspx

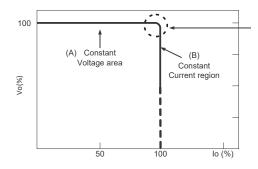


Lighting Accessories



■ 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.

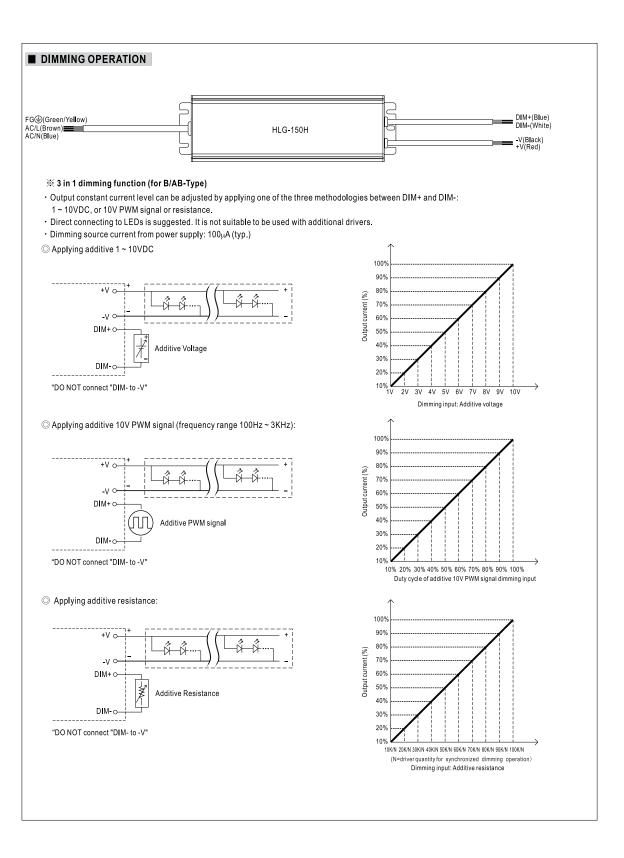


Typical output current normalized by rated current (%)

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.

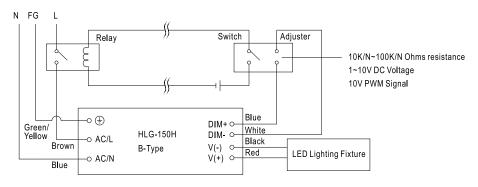






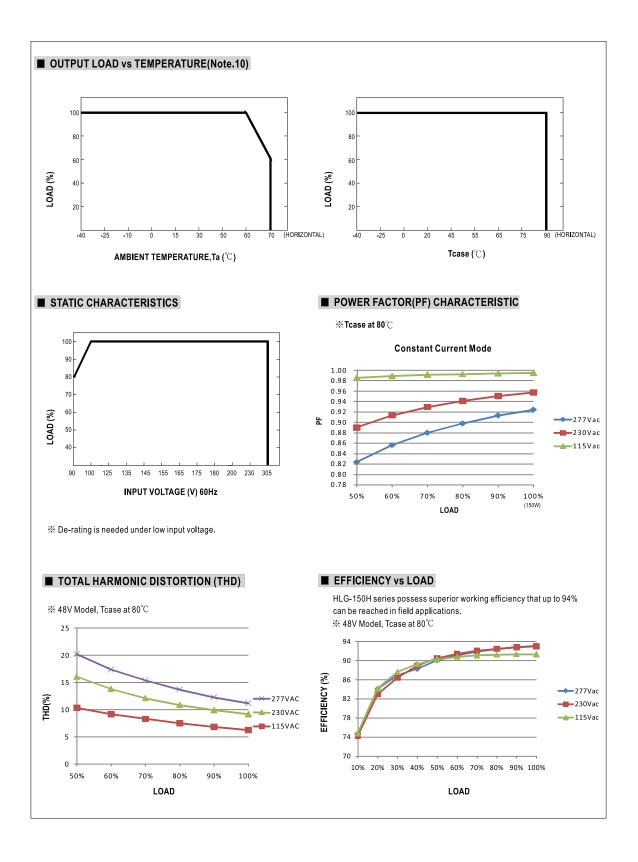
Lighting Accessories

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.

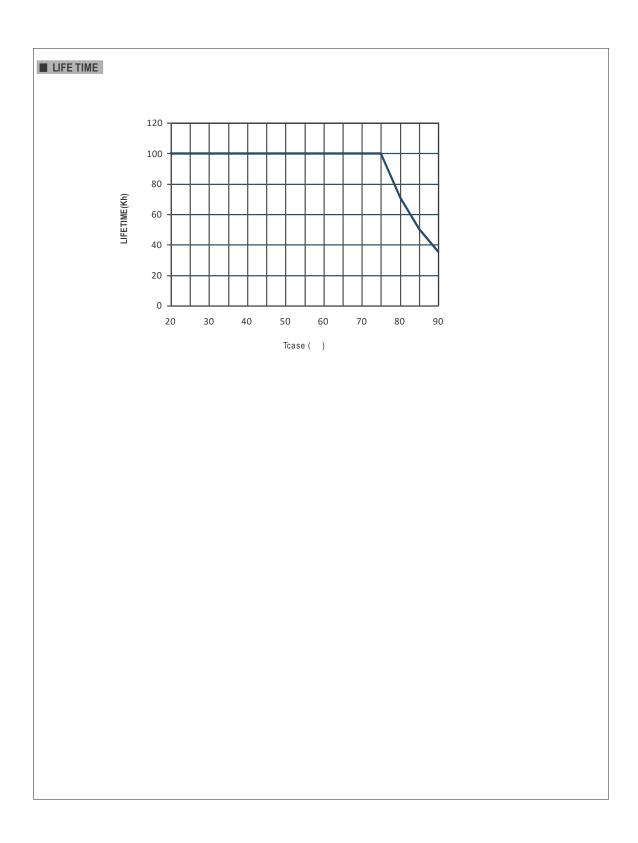


Using a switch and relay can turn ON/OFF the lighting fixture.

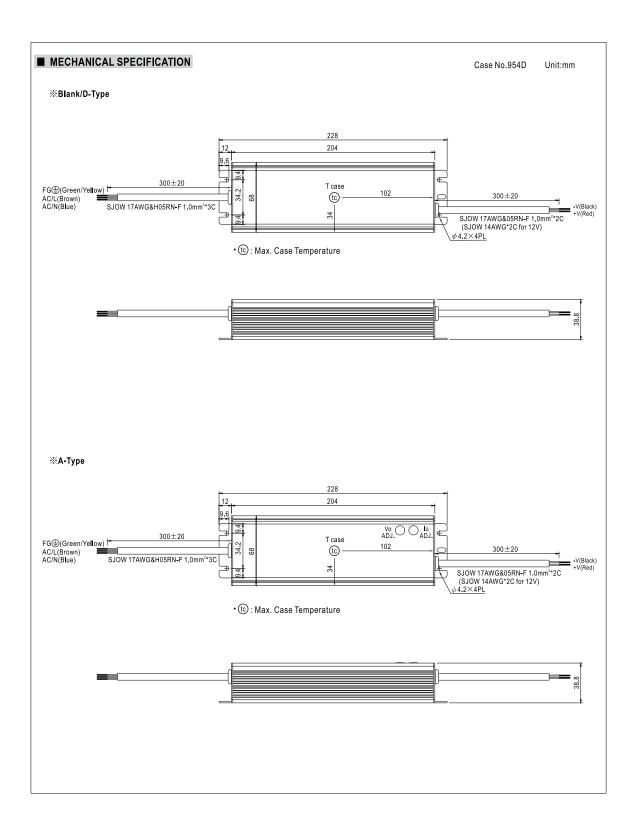




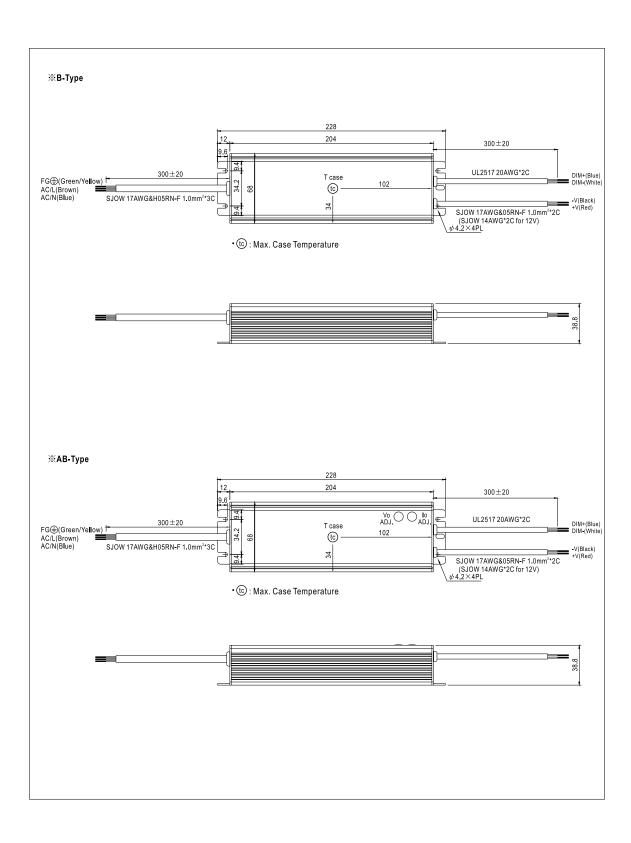




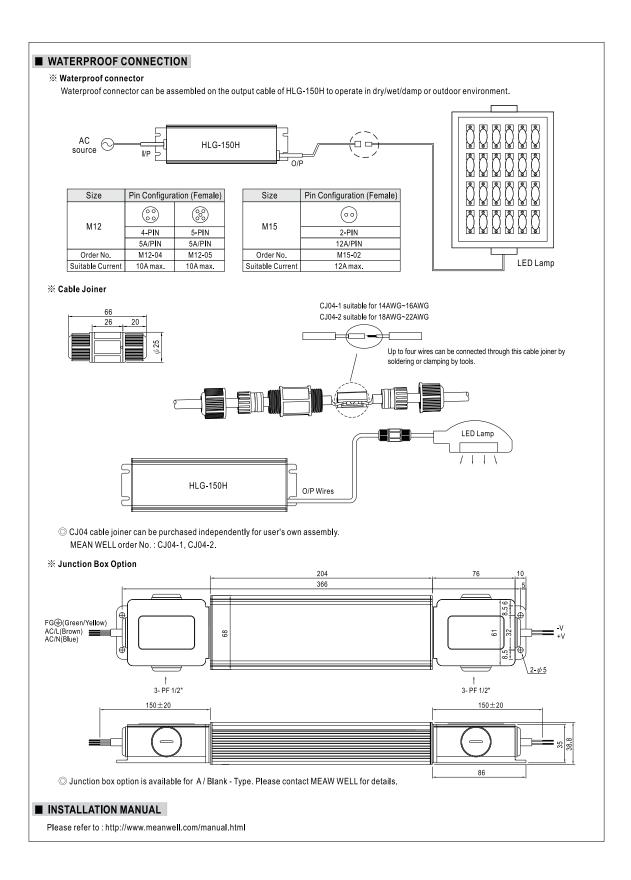














Lighting Accessories



















Features

- · 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

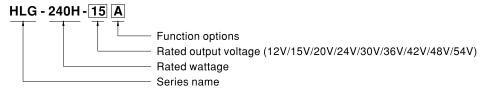
Applications

- · 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-240H series is a 240W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-240H operates from 90 ~ 305VAC 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°C ~ +90°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-240H 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
С		Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



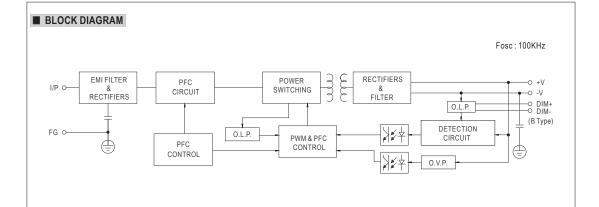
Lighting Accessories

SPECIFICATION

MODEL		HLG-240H-12	HLG-240H-15	HLG-240H-20	HLG-240H-24	HLG-240H-30	HLG-240H-36	HLG-240H-42	HLG-240H-48	HLG-240H-54				
MODEL	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	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	Adjustable fo	r A/AB/C-Type	only (via buil	-in potentiome	eter)								
ОИТРИТ	VOLIAGE ADO. NANGE	11.2 ~ 12.8V 14 ~ 16V 18.6 ~ 21.4V 22.4 ~ 25.6V 28 ~ 32V 33.5 ~ 38.5V 39 ~ 45V 44.8 ~ 51.2V 50 ~ 57V												
OUIFUI	CURRENT AR L RANGE	Adjustable fo	r A/AB/C-Type	only (via built	-in potentiome	eter)								
	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 ~ 4.45A				
	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	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
		1000ms,80m		500ms,80ms/2			1 = 0.070	-0.070	0.070					
	HOLD UP TIME (Typ.)	15ms / 115VA		7001110,001110/2	001110									
	TIOLD OF TIME (Typ.)	90 ~ 305VAC	127 ~ 43	11/DC										
	VOLTAGE RANGE Note.5			ARACTERIST	(C" coction)									
			U SIAIIC CH	ANACIENIOI	ic section)									
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)			5/230VAC @ f										
				. ,	ARACTERISTI									
	TOTAL HARMONIC DISTORTION	THD< 20% ((@ load≧50%	/ 115VAC,230	VAC; @ load≧	≧75% / 277VA	C)							
INPUT	TOTAL HARMONIO DIOTORTION	(Please refer	to "TOTAL HA	ARMONIC DIS	TORTION (TH	D)" section)								
	EFFICIENCY (Typ.)	90%	90%	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%				
	AC CURRENT (Typ.)	4A / 115VAC	2A / 230V	AC 1.2A	277VAC			•						
	INRUSH CURRENT (Typ.)	COLD START	75A(twidth=570	us measured a	t 50% Ipeak) at 2	230VAC; Per NE	EMA 410							
	MAX. No. of PSUs on 16A		COLD START 75A(twidth=570;rs measured at 50% peak) at 230VAC; Per NEMA 410 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC											
	CIRCUIT BREAKER	2 units (circui	t breaker of typ	e B) / 4 units	circuit breaker	of type C) at 2	30VAC							
	LEAKAGE CURRENT	<0.75mA / 27	7VAC											
		95 ~ 108%	7 1710											
	OVER CURRENT		ant limiting so		tically often for	It condition in a	a manua d							
					tically after fau		emovea							
PROTECTION	SHORT CIRCUIT				fault condition		40 401/	40 541/	EE COV	CO C71/				
	OVER VOLTAGE			23.5 ~ 27.5V		33 ~ 39V	43 ~ 49V	48 ~ 54V	55 ~ 63V	60 ~ 67V				
					er on to recove									
	OVER TEMPERATURE				ically after ten									
	WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU"	TPUT LOAD vs	TEMPERATU	IRE" section)							
	MAX. CASE TEMP.	Tcase=+90°C												
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50°C)											
	VIBRATION	10 ~ 500Hz, 5	iG 12min./1cyd	le, period for	72min. each ald	ong X, Y, Z axe	3							
	SAFETY STANDARDS	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent (except for HLG-240H C type); IEC/UL/EN 62368-1(except for AB, D type), UL8750; GB19510.1, GB19510.14(except for												
	0.4 2.1 0.7 4.27 4.20	Independent (except for HLG-240H C type); IEC/UL/EN 0.2308-1 (except for AB, D type), UL67-01/GB 19310.1, GB 19310.14 (except for C-type); IP65 or IP67; J61347-1, J61347-2-13 (except for B, B, B and D-type), BIS IS15885 (for 48V only), EAC TP TC 004, KC61347-1, KC61347-2-13 (except for AB, C)-type) approved												
SAFETY &	WITHSTAND VOLTAGE													
					P-FG:1.5KVA									
EMC	ISOLATION RESISTANCE				0VDC / 25°C/			- = = = :	1000 0 -					
	EMC EMISSION	GB17743 and	GB17625.1,E	AC TP TC 020	KC KN15,KN6	1547(except fo	r AB,C,D-type)							
	EMC IMMUNITY				EN61547, EN5 t for AB,C,D-ty		ıstry level (sur	ge immunity Lir	ne-Earth 4KV, L	ine-Line 2KV)				
	MTBF	729.2K hrs m	in. Telcordia	SR-332 (Bello	ore) ; 207.9K h	rs min. MIL	-HDBK-217F (2	25℃)						
OTHERS	DIMENSION			HLG-240H-Bla				-240H C-Type)						
	PACKING			UFT(HLG-240-				CUFT(HLG-24	0 C-Type)					
	All parameters NOT special	ly mentioned a	re measured	at 230VAC inp	ut, rated curre	nt and 25°C c	f ambient tem	perature.	-,,,					
NOTE	2. Ripple & noise are measure	d at 20MHz o	f bandwidth by	using a 12" t	wisted pair-wire	e terminated w	ith a 0.1uf & 4	7uf parallel cap	oacitor.					
	3. Tolerance : includes set up	tolerance, line	regulation and	load regulation	on.									
	4. Please refer to "DRIVING N	IETHODS OF	LED MODUL	E".										
	5. De-rating may be needed u	nder low input	voltages. Plea	ase refer to "S	TATIC CHARA	CTERISTIC" :	sections for de	tails.						
	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 twicel life expectancy of >62,000 hours of operation when Trace, particularly (to) point (or TMP, per DLC), is about 75°C or less													
	9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (to) 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	-					n models for o	perating altitud	e higher than :	2000m(6500ft)				
	12. For any application note a	_						_						
	https://www.meanwell.com							-						
	· ·			ease xe fer x o x	(ttps://www.me	anwell.com/se	rviceDisclaime	r.aspx						
	※ Aroduct Nability Naisclaimer: For Netailed Naformation, Nease Nefer Neture 1. Service Disclaimer 2. For Netailed Naformation, Nease Nefer Neture 1. Service Disclaimer 2. For Netailed Naformation, Nease Nefer Neture 1. Service Disclaimer 2. Service Disclaimer 2. Service Disclaimer 3.													

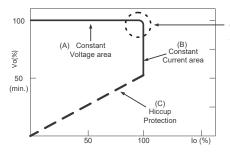


Lighting Accessories



■ 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.

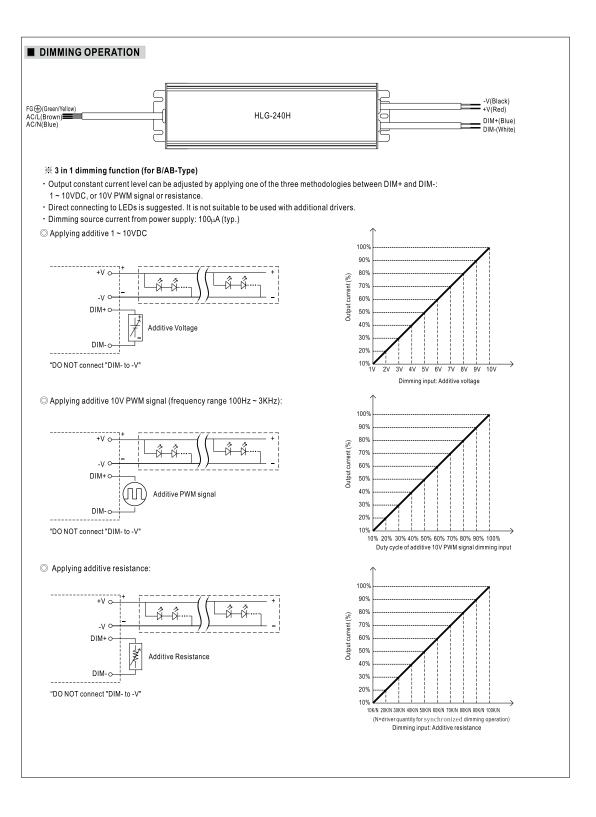


Typical output current normalized by rated current (%)

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.

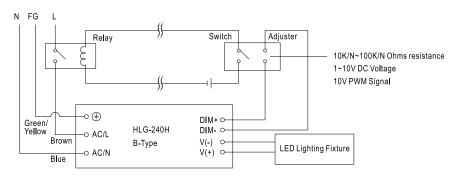






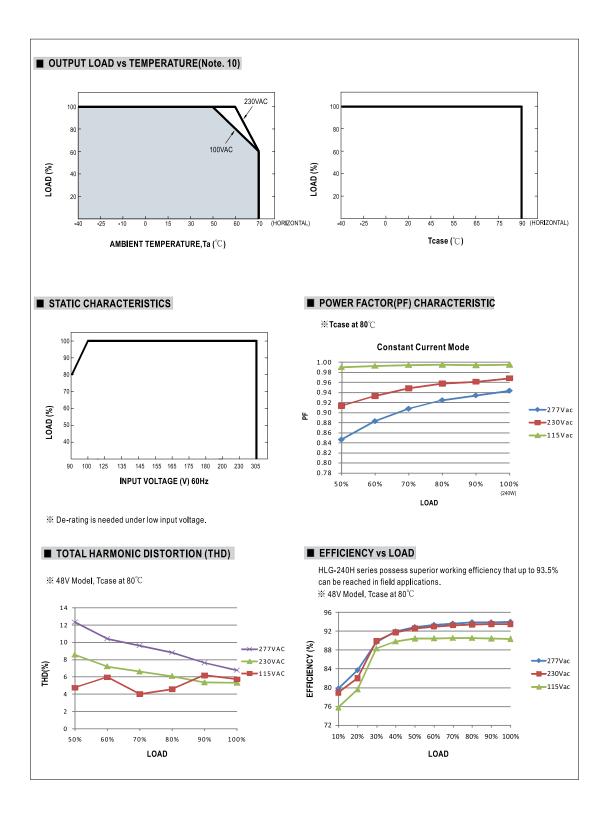
Lighting Accessories

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.

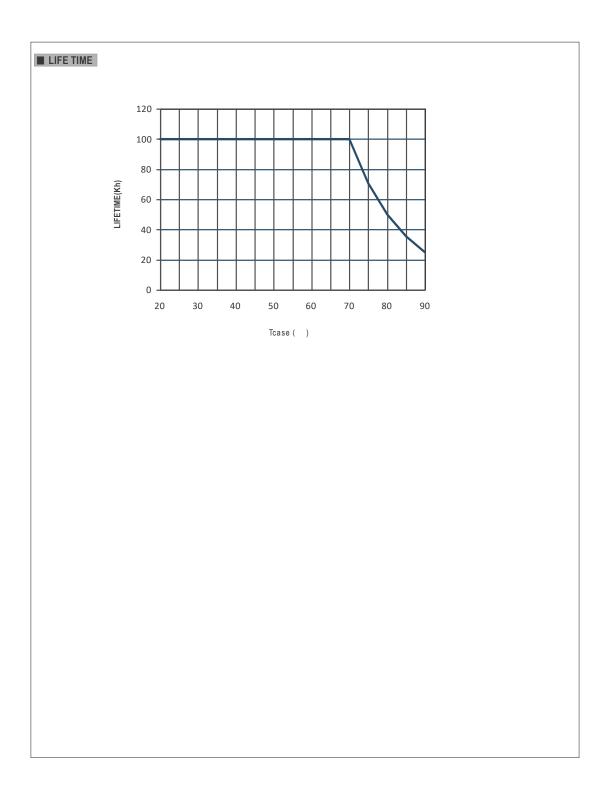


Using a switch and relay can turn ON/OFF the lighting fixture.

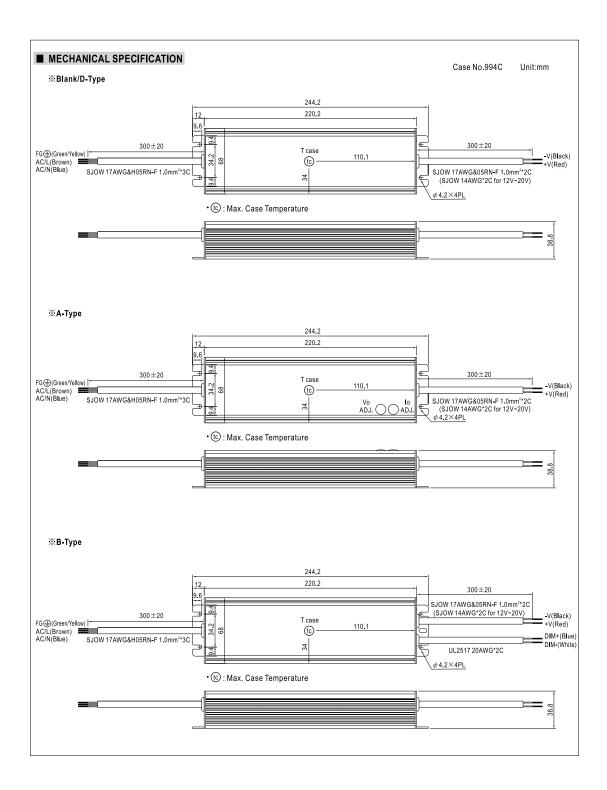




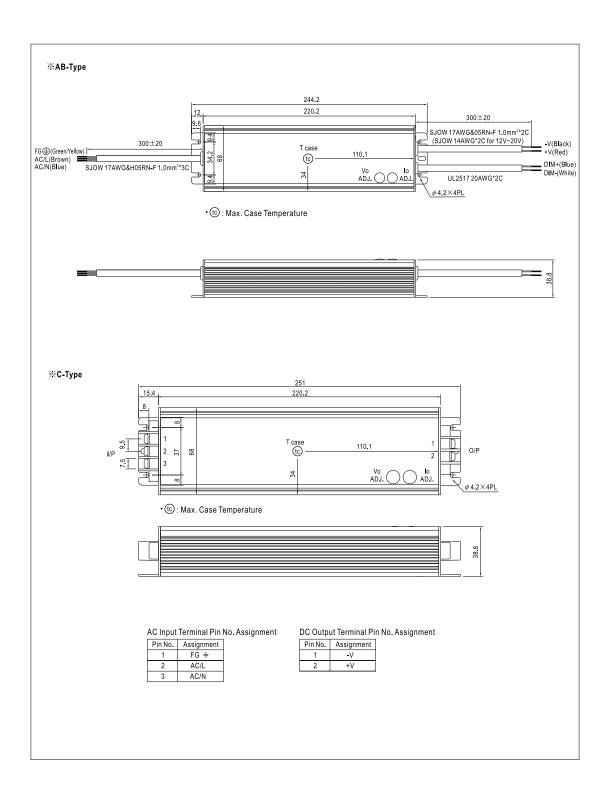




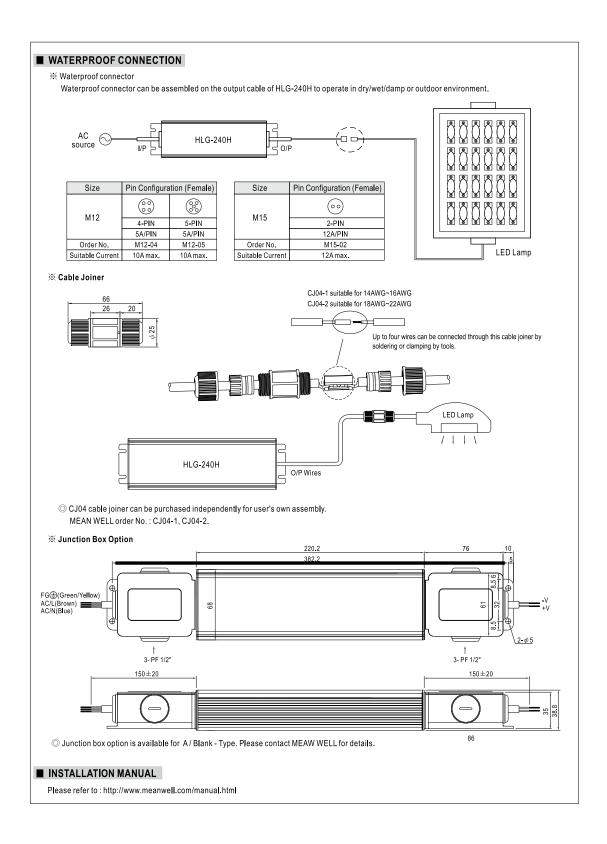














Lighting Accessories



SKU: 1500011 - MW HLG 320-24



Lighting Accessories





- Universal AC input / Full range (up to 305VAC)
- · Built-in active PFC function
- * High efficiency up to 95%
- 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
- * Type HL LED Driver for use in Class , Division 2 hazardous location luminaires
- 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 location
- 5 years warranty (Note.10)













HLG-320H-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 PWM signal or resistance.
- C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internalpotentiometer.
- D (option) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

MODEL		HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
		6~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V			
	RATED CURRENT	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A			
	RATED POWER	264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W			
		150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p			
	VOLTAGE ADJ. RANGE Note.6		13.5 ~ 17V	17 ~ 22V	21 ~ 26V	26 ~ 32V	32 ~ 39V	38 ~ 45V	43 ~ 52V	49 ~ 58V			
OUTPUT	TOENTOE TIENTOE NOUS				type and C type				10 021	10 001			
	CURRENT ADJ. RANGE	11 ~ 22A	9.5 ~ 19A	7.5 ~ 15A		5.35 ~ 10.7A	4.45 ~ 8.9A	3.8 ~ 7.65A	3.35 ~ 6.7A	2.97 ~ 5.95A			
	VOLTAGE TOLERANCE Note.3	± 3.0%	± 2.0%	± 1.5%	± 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	± 2.0%	± 1.5%	± 1.0%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%			
	SETUP, RISE TIME Note.8	2500ms,80m	s/115VAC 5	i00ms,80ms/2	30VAC at full I	oad							
	HOLD UP TIME (Typ.)	15ms at full lo	5ms at full load 230VAC /115VAC										
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431	IVDC									
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)											
	TOTAL HARMONIC DISTORTION	THD< 20% wl	nen output loa	ding 50% at	115VAC/230V	'AC input and o	output loading	75% at 277	VAC input				
	EFFICIENCY (Typ.) (230Vac)	91%	92.5%	93.5%	94%	94%	94.5%	95%	95%	95%			
INPUT	EFFICIENCY (Typ.) (277Vac)	91.5%	93%	94%	94.5%	94.5%	95%	95%	95%	95%			
	AC CURRENT (Typ.)	3.5A / 115VA	1.65A/	230VAC	1.45A / 277VAC	;							
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=1010µs measured at 50% Ipeak) at 230VAC											
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC											
	LEAKAGE CURRENT	<0.75mA / 27	7VAC										
		95 ~ 108%											
	OVER CURRENT Note.4		e · Constant ci	urrent limiting	recovers auton	natically after fa	ault condition is	removed					
	SHORT CIRCUIT	71		- 0.	fault condition		aut condition ic	Tomovou					
PROTECTION	OHORT ORCOTT	14 ~ 17V	17.5 ~ 21V		27 ~ 33V	33 ~ 37V	40 ~ 46V	46.5 ~ 53V	53.5 ~ 60V	59 ~ 65V			
	OVER VOLTAGE	Protection type: Shut down and latch off o/p voltage, re-power on to recover											
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover											
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")											
	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	10 ~ 500Hz. 5	G 12min./1cvc	le, period for	2min. each alc	ong X, Y, Z axes	;						
						2-13 independe		67 (except for H	HLG-320H C tvi	oe), J61347-1.			
	SAFETY STANDARDS Note.7			G-320H C type						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	WITHSTAND VOLTAGE				P-FG:1.5KVA	С							
SAFETY &	ISOLATION RESISTANCE				0VDC / 25°C/								
EMC	EMC EMISSION					N61000-3-2 C	lass C (≥ 50%	load) : EN610	00-3-3				
	EMC IMMUNITY					5024, light indu		- , .					
	MTBF	157.1K hrs mi		K-217F (25°C		,	, (,,					
OTHERS	DIMENSION	252*90*43.8n											
	PACKING		16Kg/0.92CUF	T									
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1ut & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. A type and C type only. 7. Safety and EMC design refer to EN605961, subject CNS15233, GB7000.1, FCC part18. 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 9. 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. 10. Refer to warranty statement. 11. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.												

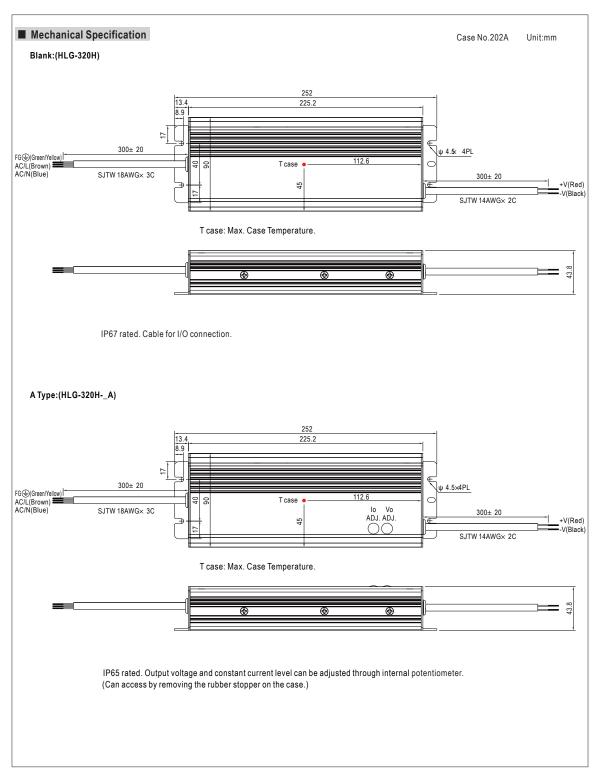


Lighting Accessories

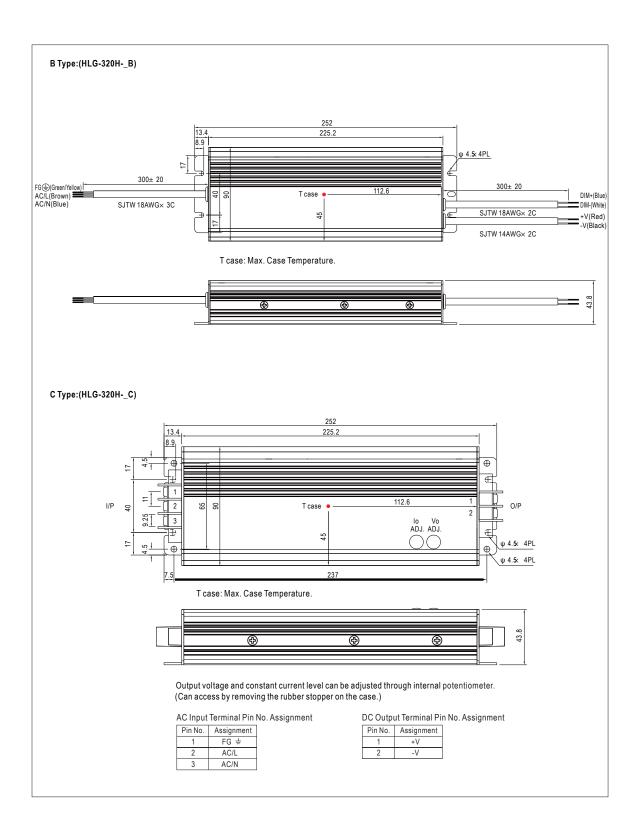
MEAN

320W Single Output Switching Power Supply

HLG-320H series







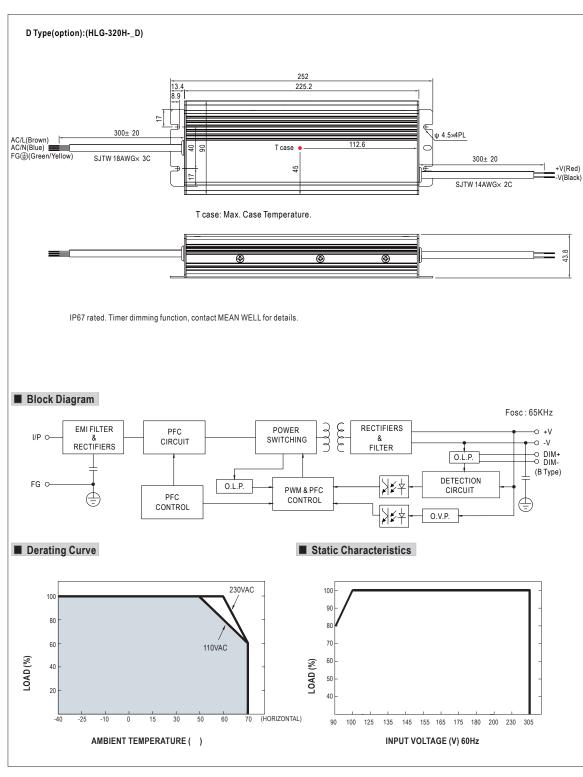


Lighting Accessories

MEAN

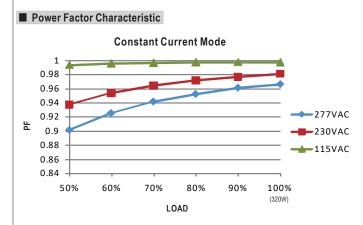
320W Single Output Switching Power Supply

HLG-320H



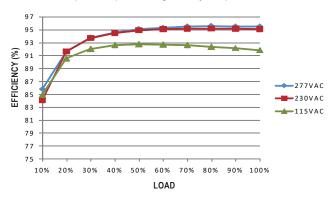


Lighting Accessories



■ EFFICIENCY vs LOAD (48V Model)

HLG-320H series possess superior working efficiency that up to 95% can be reached in field applications.

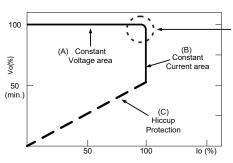


■ DRIVING METHODS OF LED MODULE

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).



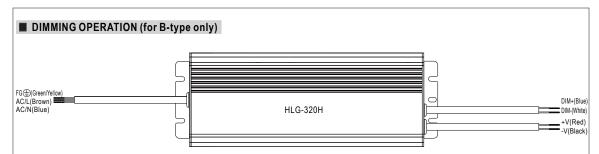
Typical LED power supply I-V curve

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.



Lighting Accessories



- Built-in 3 in 1 dimming function, IP67 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-.
- * Please DO NOT connect "DIM-" to "-V".
- × Reference resistance value for output current adjustment (Typical)

Resistance	Single driver	10ΚΩ	20ΚΩ	30ΚΩ	40ΚΩ	50ΚΩ	60ΚΩ	70ΚΩ	80ΚΩ	90ΚΩ	100ΚΩ	OPEN
value	Multiple drivers (N=driver quantity for synchronized dimming operation)	10KΩ /N	20KΩ /N	30KΩ /N	40KΩ /N	50KΩ /N	60KΩ /N	70KΩ /N	80KΩ /N	90KΩ /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%

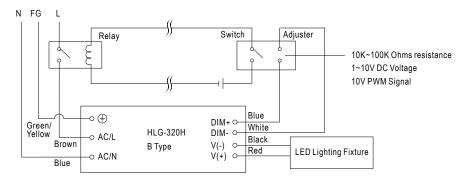
* 10V PWM signal for output current adjustment (Typical): Frequency range:100HZ ~ 3KHz

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.

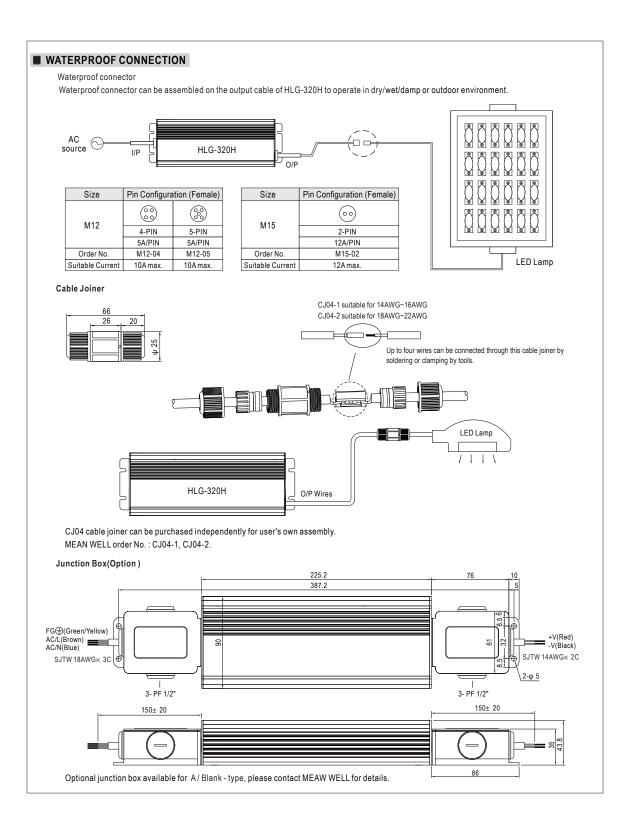
Dimming connection diagram for turning the lighting fixture $\mbox{ON/OFF}$:



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.







Lighting Accessories





Features

- · AC input range selectable by switch
- · Withstand 300VAC surge input for 5 second
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- 1U low profile
- · Withstand 5G vibration test
- · LED indicator for power on
- No load power consumption<0.75W
- 100% full load burn-in test
- High operating temperature up to 70
- · Operating altitude up to 5000 meters (Note.8)
- · High efficiency, long life and high reliability
- · 3 years warranty

Applications

- · Industrial automation machinery
- · Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus

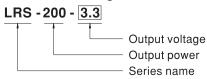
■ Description

LRS-200 series is a 200W single-output enclosed type power supply with 30mm of low profile design. Adopting the input of 115VAC or 230VAC (select by switch), the entire series provides an output voltage line of 3.3V, 4.2V, 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of LRS-200 that the whole series operates from -25 through 70 under air convection without a fan. Delivering an extremely low no load power consumption (less than 0.75W), it allows the end system to easily meet the worldwide energy requirement. LRS-200 has the complete protection functions and 5G antivibration capability; it is complied with the international safety regulations such as UL 60950-1.

LRS-200 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding





Lighting Accessories

SPECIFICATION

	LRS-200-3.3	LRS-200-4.2	LRS-200-5	LRS-200-12	LRS-200-15	LRS-200-24	LRS -200-36	LRS-200-48					
DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V					
RATED CURRENT	40A	40A	40A	17A	14A	8.8A	5.9A	4.4A					
CURRENT RANGE	0 ~ 40A	0 ~ 40A	0 ~ 40A	0 ~ 17A	0 ~ 14A	0 ~ 8.8A	0 ~ 5.9A	0 ~ 4.4A					
RATED POWER	132W	168W	200W	204W	210W	211.2W	212.4W	211.2W					
RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p					
VOLTAGE ADJ. RANGE	2.97 ~ 3.6V	3.6 ~ 4.4V	4.5 ~ 5.5V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8					
VOLTAGE TOLERANCE Note.3	± 3.0%	± 4.0%	± 3.0%	± 1.5%	± 1.0%	± 1.0%	± 1.0%	± 1.0%					
LINE REGULATION Note.4	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%					
LOAD REGULATION Note.5	± 2.5%	± 2.5%	± 2.0%	± 1.0%	± 0.5%	± 0.5%	± 0.5%	± 0.5%					
SETUP, RISE TIME	1300ms, 50ms/230VAC 1300ms,50ms/115VAC at full load												
HOLD UP TIME (Typ.)	16ms/230VAC 12ms/115VAC at full load												
VOLTAGE RANGE													
FREQUENCY RANGE													
EFFICIENCY (Typ.)	83%	86%	87%	87.5%	88%	89.5%	89.5%	90%					
AC CURRENT (Typ.)	4A/115VAC 2.2A/230VAC												
INRUSH CURRENT (Typ.)	COLD STAR 60A/115VAC 60A/230VAC												
LEAKAGE CURRENT	<2mA / 240VAC												
110 ~ 140% rated output power													
OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed												
	3.8 ~ 4.45V	4.6 ~ 5.4V	5.75 ~ 6.75V	13.8 ~ 16.2V	18 ~ 21V	28.8 ~ 33.6V	41.4 ~ 46.8V	55.2 ~ 64.8					
OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed												
OVER TEMPERATURE	Hiccup mode, recovers automatically after fault condition is removed												
WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")												
WORKING HUMIDITY	20 ~ 90% RH non-condensing												
STORAGE TEMP., HUMIDITY													
TEMP. COEFFICIENT													
VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes												
SAFETY STANDARDS	U S S S S S S S S S S S S S S S S S S S												
WITHSTAND VOLTAGE	I/P-O/P:3KVA	C I/P-FG:2F	KVAC O/P-F	G:0.5KVAC									
ISOLATION RESISTANCE													
EMC EMISSION													
EMC IMMUNITY	'												
	•			2)									
				• 1									
PACKING		, ,	CUFT										
	CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION Note.5 SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER LOAD OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION	DC VOLTAGE 3.3V RATED CURRENT 40A CURRENT RANGE 0 ~ 40A RATED POWER 132W RIPPLE & NOISE (max.) Note.2 150mVp-p VOLTAGE ADJ. RANGE 2.97 ~ 3.6V VOLTAGE TOLERANCE Note.3 ± 3.0% LINE REGULATION Note.4 ± 0.5% LOAD REGULATION Note.5 ± 2.5% SETUP, RISE TIME 1300ms, 50m HOLD UP TIME (Typ.) 16ms/230VAC FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY (Typ.) 83% AC CURRENT (Typ.) 4A/115VAC INRUSH CURRENT (Typ.) COLD STAR LEAKAGE CURRENT 2mA / 240V/ Protection typ. 3.8 ~ 4.45V Protection typ. 3.8 ~ 4.45V Protection typ. 20 ~ 90% RH STORAGE TEMP, HUMIDITY 40 ~ +85°C, TEMP. COEFFICIENT ±0.03%/°C (0 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 × 100 ×	DC VOLTAGE 3.3V 4.2V	DC VOLTAGE 3.3V 4.2V 5V RATED CURRENT 40A 40A 40A CURRENT RANGE 0 ~ 40A 0 ~ 40A 0 ~ 40A RATED POWER 132W 168W 200W RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p 150mVp-p VOLTAGE ADJ. RANGE 2.97 ~ 3.6V 3.6 ~ 4.4V 4.5 ~ 5.5V VOLTAGE TOLERANCE Note.3 ± 3.0% ± 4.0% ± 3.0% LINE REGULATION Note.4 ± 0.5% ± 0.5% ± 0.5% LOAD REGULATION Note.5 ± 2.5% ± 2.5% ± 2.0% SETUP, RISE TIME 1300ms, 50ms/230VAC 1300ms,50m HOLD UP TIME (Typ.) 16ms/230VAC 12ms/115VAC at full load VOLTAGE RANGE 90 ~ 132VAC / 180 ~ 264VAC by switch FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY (Typ.) 83% 86% 87% AC CURRENT (Typ.) 44/115VAC 2.2A/230VAC INRUSH CURRENT (Typ.) 44/115VAC 2.2A/230VAC OVER LOAD 110 ~ 140% rated output power Protection type : H	DC VOLTAGE 3.3V	DC VOLTAGE 3.3V 4.2V 5V 12V 15V RATED CURRENT 40A 40A 40A 17A 14A CURRENT RANGE 0 ~ 40A 0 ~ 40A 0 ~ 40A 0 ~ 17A 0 ~ 14A RATED POWER 132W 168W 200W 204W 210W RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p<	DC VOLTAGE 3.3V 4.2V 5V 12V 15V 24V RATED CURRENT 40A 40A 40A 40A 17A 14A 8.8A CURRENT RANGE 0 ~ 40A 0 ~ 40A 0 ~ 40A 0 ~ 17A 0 ~ 14A 0 ~ 8.8A RATED POWER 132W 168W 200W 204W 210W 211.2W RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p <td< td=""><td>DC VOLTAGE 3.3V 4.2V 5V 12V 15V 24V 36V RATED CURRENT 40A 40A 40A 40A 77A 14A 8.8A 5.9A CURRENT RANGE 0 - 40A 0 - 40A 0 - 40A 0 - 40A 0 - 17A 0 - 14A 0 - 8.8A 0 - 5.9A RATED POWER RATED POWER 132W 168W 200W 201W 201W 211.2W 212.4W RATED POWER RATED POWER 132W 168W 200W 201W 210W 211.2W 212.4W 210W 211.2W 216.72.8W 32.4 → 39.6V VOLTAGE ADJ. RANGE 297 - 3.6V 3.6 ~ 4.4V 4.5 - 5.5V 10.2 - 13.8V 13.5 - 18V 13.6 - 18V 21.6 - 2.8 N 32.4 → 39.6V VOLTAGE TOLERANCE Note.3 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5%</td></td<>	DC VOLTAGE 3.3V 4.2V 5V 12V 15V 24V 36V RATED CURRENT 40A 40A 40A 40A 77A 14A 8.8A 5.9A CURRENT RANGE 0 - 40A 0 - 40A 0 - 40A 0 - 40A 0 - 17A 0 - 14A 0 - 8.8A 0 - 5.9A RATED POWER RATED POWER 132W 168W 200W 201W 201W 211.2W 212.4W RATED POWER RATED POWER 132W 168W 200W 201W 210W 211.2W 212.4W 210W 211.2W 216.72.8W 32.4 → 39.6V VOLTAGE ADJ. RANGE 297 - 3.6V 3.6 ~ 4.4V 4.5 - 5.5V 10.2 - 13.8V 13.5 - 18V 13.6 - 18V 21.6 - 2.8 N 32.4 → 39.6V VOLTAGE TOLERANCE Note.3 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5% 4.0.5%					

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 Tolerance: includes set up tolerance, line regulation and load regulation.
 Line regulation is measured from low line to high line at rated load.

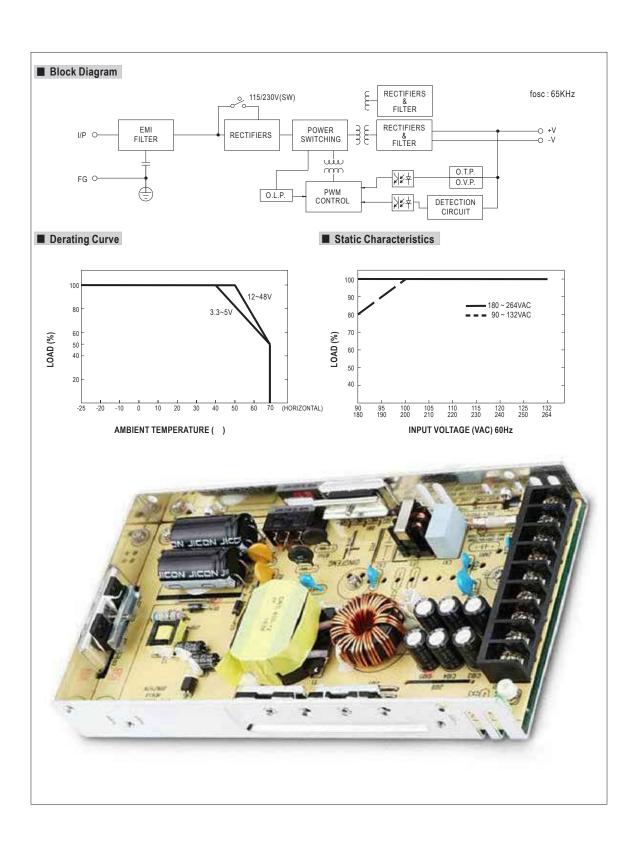
- 5. Load regulation is measured from 0% to 100% rated load.
- 6. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up
- 7. The 150% peak load capability is built in for up to 1 second for 12~48V.LRS-200 will enter hiccup mode if the peak load is delivered for over 1 second and will recover once it resumes to the rated current level(115VAC/230VAC).

 8. The ambient temperature derating of 5 /1000m is needed for operating altitude greater than 2000m(6500ft).
- 9. This power supply does not meet the harmonic current requirements outlined by EN61000-3-2. Please do not use this power supply under the following conditions:
 - a) the end-devices is used within the European Union, and
 - b) the end-devices is connected to public mains supply with 220Vac or greater rated nominal voltage, and c) the power supply is:

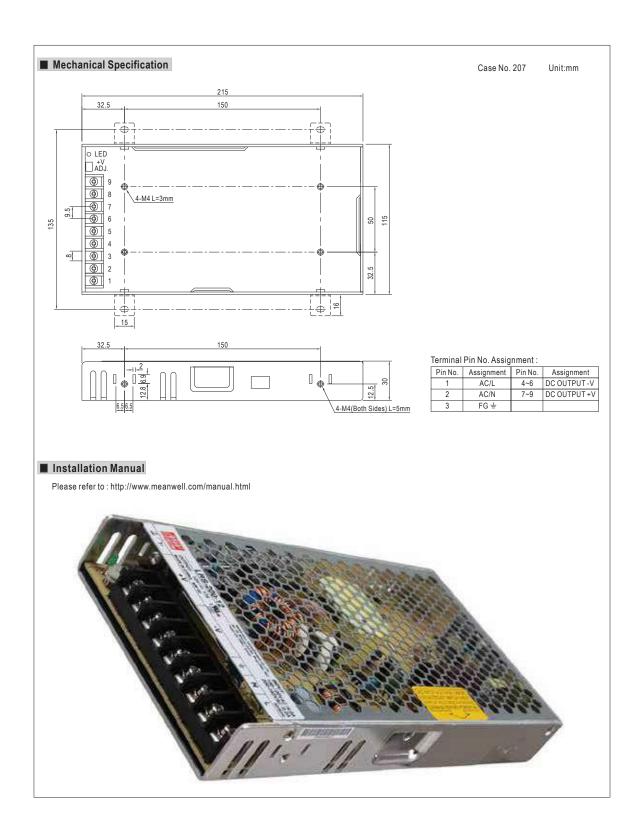
 - installed in end-devices with average or continuous input power greater than 75W, or
 - belong to part of a lighting system

- Power supplies used within the following end-devices do not need to fulfill EN61000-3-2
- a) professional equipment with a total rated input power greater than 1000W;
- b) symmetrically controlled heating elements with a rated power less than or equal to 200W











Lighting Accessories





■ Features

- · AC input range selectable by switch
- · Withstand 300VAC surge input for 5 second
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Forced air cooling by built-in DC fan
- · Built-in cooling Fan ON-OFF control
- · 1U low profile
- · Withstand 5G vibration test
- · LED indicator for power on
- No load power consumption<0.75W
- · 100% full load burn-in test
- High operating temperature up to 70°c
- Operating altitude up to 5000 meters (Note.8)
- · High efficiency, long life and high reliability
- · 3 years warranty

Applications

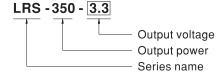
- · Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus

■ Description

LRS-350 series is a 350W single-output enclosed type power supply with 30mm of low profile design. Adopting the input of 115VAC or 230VAC (select by switch), the entire series provides an output voltage line of 3.3V, 4.2V, 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 89%, with the built-in long life fan LRS-350 can work under -25~ \pm +70 with full load. Delivering an extremely low no load power consumption (less than 0.75W), it allows the end system to easily meet the worldwide energy requirement. LRS-350 has the complete protection functions and 5G anti-vibration capability; it is complied with the international safety regulations such as UL60950-1. LRS-350 series serves as a high price-to-performance power supply solution for various industrial applications.

Model Encoding





Lighting Accessories

SPECIFICATION

MODEL		LRS-350-3.3	LRS-350-4.2	LRS-350-5	LRS-350-12	LRS-350-15	LRS-350-24	LRS -350-36	LRS-350-48					
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V					
	RATED CURRENT	60A	60A	60A	29A	23.2A	14.6A	9.7A	7.3A					
	CURRENT RANGE	0 ~ 60A	0 ~ 60A	0 ~ 60A	0 ~ 29A	0 ~ 23.2A	0 ~ 14.6A	0~9.7A	0 ~ 7.3A					
	RATED POWER	198W	252W	300W	348W	348W	350.4W	349.2W	350.4W					
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p					
OUTPUT	VOLTAGE ADJ. RANGE	2.97 ~ 3.6V	3.6 ~ 4.4V	4.5 ~ 5.5V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V					
	VOLTAGE TOLERANCE Note.3	± 4.0%	± 4.0%	± 3.0%	± 1.5%	± 1.0%	± 1.0%	± 1.0%	± 1.0%					
	LINE REGULATION Note.4	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%					
	LOAD REGULATION Note.5	± 2.5%	± 2.5%	± 2.0%	± 1.0%	± 0.5%	± 0.5%	± 0.5%	± 0.5%					
	SETUP, RISE TIME	1300ms, 50m	1300ms, 50ms/230VAC 1300ms,50ms/115VAC at full load											
	HOLD UP TIME (Typ.)	16ms/230VAC 12ms/115VAC at full load												
	VOLTAGE RANGE	90 ~ 132VAC	90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (switch on 230VAC)											
	FREQUENCY RANGE	47~63Hz												
INDUT	EFFICIENCY (Typ.)	79.5%	81.5%	83.5%	85%	86%	88%	88.5%	89%					
INPUT	AC CURRENT (Typ.)	6.8A/115VAC 3.4A/230VAC												
	INRUSH CURRENT (Typ.)	60A/115VAC 60A/230VAC												
	LEAKAGE CURRENT	<2mA/240VAC												
	OVER LOAD	110 ~ 140% rated output power												
		Protection typ	e : Hiccup mo	de, recovers a	utomatically aft	er fault condition	on is removed							
PROTECTION	OVER VOLTAGE	3.8 ~ 4.45V	4.6 ~ 5.4V	5.75 ~ 6.75V	13.8 ~ 16.2V	18 ~ 21V	28.8 ~ 33.6V	41.4 ~ 46.8V	55.2 ~ 64.8\					
		Protection type : Hiccup mode, recovers automatically after fault condition is removed												
	OVER TEMPERATURE	Hiccup mode, recovers automatically after fault condition is removed												
FUNCTION	FAN ON/OFF CONTROL (Typ.)	RTH3 ≥50 FAN ON, ≤40 FAN OFF												
	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20 ~ 90% RH non-condensing												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH												
	TEMP. COEFFICIENT	± 0.03%/∘C (0 ~ 50°C)												
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes												
	SAFETY STANDARDS	UL60950-1, E	SMI CNS1433	6-1, EAC TP T	C 004 approve	d								
	WITHSTAND VOLTAGE	I/P-O/P:3KVA	C I/P-FG:2k	(VAC O/P-F	G:0.5KVAC									
SAFETY	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:100	OM Ohms/500\	/DC / 25°C/ 70°	% RH								
	EMC EMISSION	Compliance to	BSMI CNS134	138, EAC TP TO	C 020									
	EMC IMMUNITY	Compliance to	EAC TP TC 02	20										
	MTBF	327.9K hrs m	in. MIL-HDE	3K-217F (25°C	:)									
OTHERS	DIMENSION	215*115*30m	m (L*W*H)											
	PACKING	0.76Kg; 15pc	s/12.4Kg/0.780	CUFT										
NOTE	1 All representation NOT and			1. All paymentary NOT appoints mortaged as managed at 200VAC input yeted lead and 2ET of ambient temporature										

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 □ 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. Line regulation is measured from low line to high line at rated load.
- 5. Load regulation is measured from 0% to 100% rated load.
- 6. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up
- 7.The 150% peak load capability is built in for up to 1 second for 12~48V.LRS-350 will enter hiccup mode if the peak load is delivered for over 1 second and will recover once it resumes to the rated current level(115VAC/230VAC).
- 8. The ambient temperature derating of $5 \square$ /1000m is needed for operating altitude greater than 2000m(6500ft).
- 9. This power supply does not meet the harmonic current requirements outlined by EN61000-3-2. Please do not use this power supply under the following conditions:
 - a) the end-devices is used within the European Union, and
 - b) the end-devices is connected to public mains supply with 220Vac or greater rated nominal voltage, and
 - c) the power supply is:
 - installed in end-devices with average or continuous input power greater than 75W, or
 - belong to part of a lighting system

Exception:

Power supplies used within the following end-devices do not need to fulfill EN61000-3-2

- a) professional equipment with a total rated input power greater than 1000W;
- b) symmetrically controlled heating elements with a rated power less than or equal to 200W



