

Lighting Accessories



SKU: 100339 SKU: 151173



SKU: 100321 SKU: 100354



SKU: 101600 SKU: 101667



SKU: 150030





SKU: 105601 SKU: 109496



SKU: 150011



SKU: 150836



SKU: 151616

Beyond LED Technology 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.

Lighting Accessories

SKU#	Model #	Working Temp	Environment	Output Voltage	IP	Efficiency
100339	BLT-60-12	-22°F/158°F	Outdoor	12V DC	N/A	83%
151173	BLT-100-24	32°F/104°F	Indoor	24V DC	N/A	89%
100321	MW LPV 60-12	-22°F/158°F	Outdoor	12V DC	IP67	83%
100354	MW LPV 60-24	-22°F/158°F	Outdoor	24V DC	IP67	86%
101600	MW LPV 100-12	-13°F/158°F	Outdoor	12V DC	IP67	85%
101667	MW LPV 100-24	-13°F/158°F	Outdoor	24V DC	IP67	88%
106096	MW LPVL 150-12	-13°F/158°F	Outdoor	12V DC	IP67	87%
150030	MW LPVL 150-24V	-13°F/158°F	Outdoor	24V DC	IP68	87%
105593	MW HLG 150-12	-40°F/158°F	Outdoor	12V DC	IP67	91.50%
105601	MW HLG 240-12	-40°F/158°F	Outdoor	12V DC	IP65	90%
109496	MW HLG 240-24	-40°F/158°F	Outdoor	24V DC	IP65	90%
150011	MW HLG 320-24	-40°F/158°F	Outdoor	24V DC	IP65	90%
150836	MW LRS-200-12V	-4°F/122°F	Indoor	24V DC	N/A	87%
150837	MW LRS-350-12V	-4°F/122°F	Indoor	12V DC	N/A	85%
151616	MW-LRS-350-24V	-4°F/122°F	Indoor	24V DC	N/A	87%







Laptop Series



SKU: 100339 - BLT-60-12

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

- 12V DC Output Voltage
- 83% Efficiency

LED DRIVERS

LED Drivers

Laptop Series



SKU: 151173 - BLT-100-24

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

- 24V DC Output Voltage
- 89% Efficiency



MW LPV 60 Series



■ 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

	SPEC	IFI	ICAT	ΓION	
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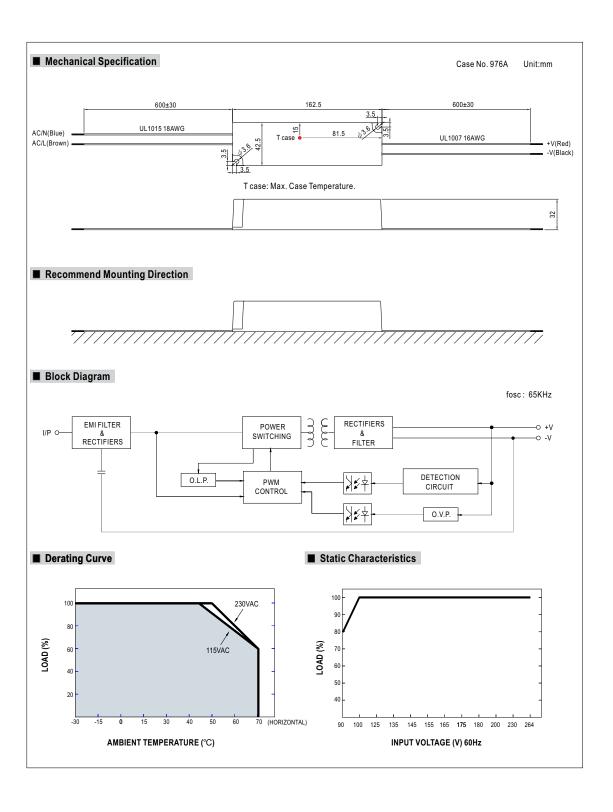
 2 years warranty	8			гпг	00	_
LPS (except for 5V) IP67	R-41027766 (for 12V,24V only)	(for 48V only)	C TUS (except for 5V,48V)	tHL	CR	E

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					
OUTDUT	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p					
OUTPUT	VOLTAGE TOLERANCE Note.3	±8.0%										
	LINE REGULATION	±1.0%										
	LOAD REGULATION	±6.0%	±2.0%									
	SETUP, RISE TIME Note.6	500ms, 20ms / 230VA	C 500ms, 20ms / 1	15VAC at full load(for 5~	36V); 500ms, 30ms / 2	30VAC 500ms, 30ms	115VAC at full load(fo					
	HOLD UP TIME (Typ.)	50ms/230VAC	16ms/115VAC at for	ıll load								
	VOLTAGE RANGE Note.4	90 ~ 264VAC 1	0 ~ 264VAC 127 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz	7 ~ 63Hz									
	EFFICIENCY (Typ.)	76%										
NPUT	AC CURRENT (Typ.)	1.2A/115VAC 1A/230VAC										
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=525µs measured at 50% Ipeak) 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										
PROTECTION	OVERLOAD	110 ~ 150% rated ou	utput power									
	OVER LOAD	Protection type : Hic	cup mode, recove	s automatically after fa	ault condition is remo	ved						
		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 : Shi	ut down o/p voltage	, re-power on to recov	er							
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")										
	WORKING HUMIDITY	20 ~ 90% RH non-condensing										
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 9	5% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°	C)									
	VIBRATION	10 ~ 500Hz, 2G 10m	nin./1cycle, period	for 60min. each along	X, Y, Z axes							
	SAFETY STANDARDS		o. 223-M91(excep	for LPV-60-5,LPV-60		7-M89(except for LPV or LPV-60-12,LPV-60						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC										
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohm	ns / 500VDC / 25°C	/ 70% RH								
	EMC EMISSION	Compliance to EN55	032 (CISPR32) CI	ass B, EN61000-3-2 C	lass A, EN61000-3-3	, EAC TP TC 020						
	EMC IMMUNITY	Compliance to EN61	1000-4-2,3,4,5,6,8	11, EN55024, light ind	ustry level, criteria A	, EAC TP TC 020						
	MTBF	732Khrs min. MIL	-HDBK-217F (25°	C)								
OTHERS	DIMENSION	162.5*42.5*32mm (I	_*W*H)									
	PACKING	0.4Kg; 32pcs/13.8Kg	g/0.63CUFT									
NOTE	All parameters NOT specially Ripple & noise are measured Tolerance : includes set up to Derating may be needed und The power supply is consider The power supply is considered.	at 20MHz of bandwinderance, line regulation ler low input voltage. The das a component to	oth by using a 12" on and load regula Please check the s hat will be operate	twisted pair-wire termition. static characteristics for the combination with f	nated with a 0.1uf & r more details. inal equipment. Since	47uf parallel capacitor EMC performance w						

- 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.
 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.
 Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.
 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).
 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

- 11. This product is not intended for LED applications in the EU.(In the EU NPF/LPF/XLG series are recommended.)
- 12.Xo fulfill requirements of latest ErP regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to mains
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MW LPV 60 Series



MW LPV 100 Series

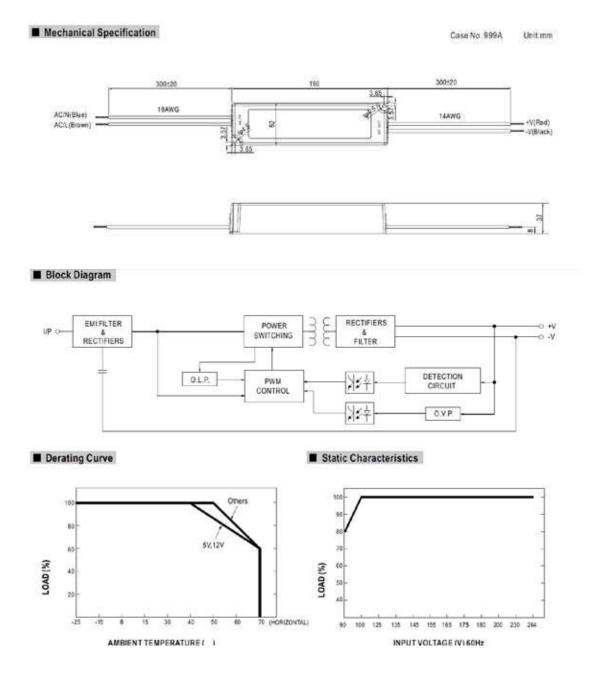


Features:

- · 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

MODEL		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	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p					
DUTPUT	VOLTAGE TOLERANCE Note.3	18.0%	±5.0%									
	LINE REGULATION	±1.0%										
	LOAD REGULATION	+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										
	EFFICIENCY (Typ.)	80%	85%	87%	88%	88%	89%					
NPUT	AC CURRENT	2.2A/115VAC 1.2A/230VAC										
	INRUSH CURRENT(max.)	COLD START 30A/115VAC 75A/230VAC										
	LEAKAGE CURRENT	0.25mA / 240VA	0	0001000111								
	AND THE RESERVE OF THE PERSON	110 ~ 150% rate	d output power									
	OVER CURRENT	of the laborated by the property of the state of	THE RESIDENCE OF THE PARTY OF T	rs automatically after	fault condition is remov	red	**********					
PROTECTION	STATE OF THE STATE	5.75 - 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V		41.4 - 48.6V	55.2 ~ 64.8V					
	OVER VOLTAGE	Protection type: Shut down oilp voltage, re-power on to recover										
v	WORKING TEMP.	-25 - +70°C (Refer to output load denating curve)										
	WORKING HUMIDITY	20 = 90% RH non-condensing										
NVRONMENT	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										
	SAFETYSTANDARDS	IP67 approved:	Design refer to TUVE	N60950-1, EN61347-2	2-13							
	WITHSTAND VOLTAGE	UP-O/P-3KVAC				-8						
SAFETY&	ISOLATION RESISTANCE	I/P.O/P > 100M 0	hms /500VDC /25°C	770% RH								
EMC	EMI CONDUCTION & RADIATION		N55022 (CISPR22) C	7.19.19.19.1								
	HARMONIC CURRENT	CONTRACTOR OF THE PARTY OF THE	and the second s	-: 80% load), EN6100	0.3.3							
	EMS IMMUNITY		THE RESERVE OF THE PERSON NAMED IN COLUMN 1	The second secon	024, heavy industry le	vel criteria A						
	MTBF	15 to our annual	MIL-HDBK-217F (25°	With the second party of the second s								
OTHERS	DIMENSION	190*52*37mm (L		2			-					
o mano	PACKING	0.63Kg:20pcs/1										
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up Desting may be needed us The power supply is consid complete installation, the fir 6. Length of set up time is me In the European market this ENS1000-3-2 class C. Sustable for indoor use or o	ed at 20MHz of be tolerance, line re- nder low input vol- ered as a compo- sal equipment ma- asured at first co- is product is only s	andwidth by using a gulation and load reg lage. Please check the nort that will be open nufacturers must re- dd start. Tuming ONG uitable for LED lighti	12" twisted pair-wire tutation. no static characteristicated in combination viguality EMC Directive DFF the power supplying applications that directions.	terminated with a 0.1 c cs for more details with final equipment, 8 on the complete insta r may lead to increase	if & 47uf parallel capa lince EMC performan diation again. e of the set up time.	ce will be affected by th					

MW LPV 100 Series



MW LPVL 150 Series



SKU: 106096 - MW LPVL 150-12



SKU: 150030 - MW LPVL 150-24V

MW LPVL 150 Series





■ 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

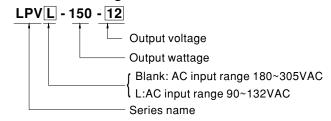
Applications

 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



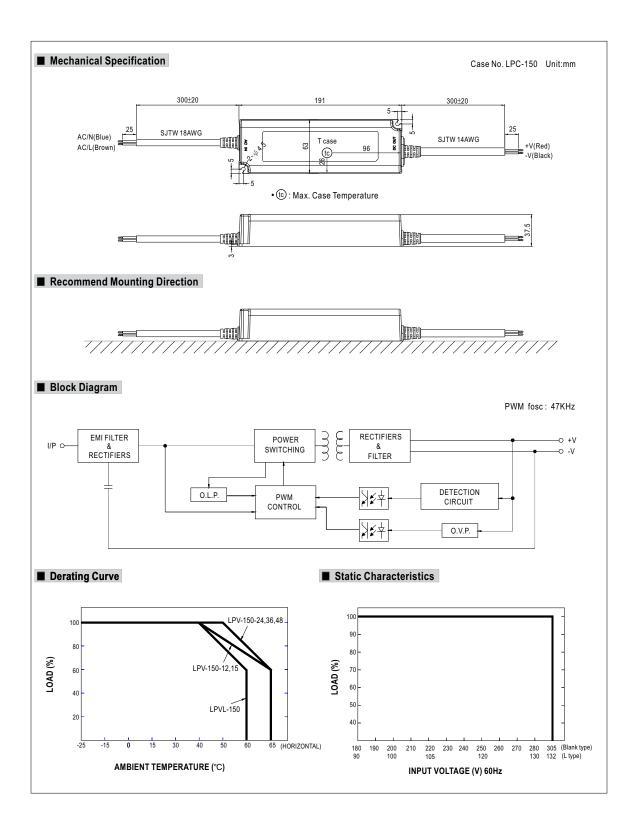


MW LPVL 150 Series

SPECIFICATION

SPECIFIC	ATION		L BV 🗆 450 40	1 87/ 450 45	1 BV 🗆 450 6 f	1 BV 450 00	L BV 450 40						
MODEL	1		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						
OUTPUT	RIPPLE & NOISE (r	nax.) Note.2	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p						
OUIFUI	VOLTAGE TOLERA	NCE Note.3	±5.0%	±5.0%									
	LINE REGULATION	١	±1.0%										
	LOAD REGULATIO	N	±2.0%										
	SETUP, RISE TIME	Note.6	LPV-150: 500ms, 50ms	/ 230VAC 500ms, 50	Oms / 277VAC; LPVL-	150: 1500ms, 50ms / 115	5VAC						
	HOLD UP TIME (Ty	p.)	LPV-150: 18ms/230VA	20ms/277VAC at fu	ıll load; LPVL-15	0: 10ms/115VAC at full I	oad						
	VOLTAGE RANGE	Note.4	LPV-150: 180 ~ 305VA	C 254 ~ 431VDC;	LPVL-150: 90~132VAC								
	FREQUENCY RAN	GE	47 ~ 63Hz										
	EFFICIENCY (Typ.))	87%	88%	89%	89%	90%						
	AC CURRENT		LPV-150: 1.7A/230VA0	LPV-150: 1.7A/230VAC									
	INRUSH CURRENT	Blank type	COLD START 60A(twice	Ith=900µs measured at	: 50% Ipeak) at 230VAC								
INPUT	(Typ.)	L type	COLD START 75A(twice	th=900µs measured at	50% Ipeak) at 115VAC								
•			,		· /	N/A C							
	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	NT	LPV-150: 0.25mA / 240	VAC LPVL-150:	0.25mA / 120VAC								
			110 ~ 150% rated outp	ut power			52 ~ 63V						
	OVERLOAD		Protection type : Hiccu	rotection type : Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION			13.5 ~ 18V	17 ~ 25V	27 ~ 35V	40 ~ 49V	52 ~ 63V						
	OVER VOLTAGE		Protection type : Shut of	lown o/p voltage, re-po	wer on to recover								
	OVER TEMPERATU	JRE			ly after temperature goes of	lown							
	WORKING TEMP.		-25 ~ +65°C (Refer to "		, ,								
	WORKING HUMIDI	TY	20 ~ 90% RH non-cond										
ENVIRONMENT	STORAGE TEMP.,		-40 ~ +80°C, 10 ~ 95%										
	TEMP. COEFFICIE				.PVL-150-12,24;0~50°C for	LPV-150-24.36.48)							
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes										
	SAFETY	Blank type	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, IP67;IEC/EN 62368-1 approved.										
	STANDARDS	L type	UL8750(type"HL"), CSA C22.2 No 250.13-12, UL879, CSA C22.2 No.207-M89, IP67 approved										
	WITHSTAND VOLT		I/P-0/P:3KVAC										
SAFETY &	ISOLATION RESIS		I/P-0/P:>100M Ohms / 500VDC / 25°C/ 70% RH										
EMC	IOOLATION NEOIO	Blank type											
	EMC EMISSION	Ltype	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2 Class A(≤80% load), EN61000-3-3, EAC TP TC 020 Compliance to FCC part 15										
SAFETY & I		Blank type			55024, light industry level, o	criteria A FAC TP TC 020)						
	EMC IMMUNITY	L type			ht industry level, criteria A		•						
	MTBF	- ·3 Pc	-		in industry level, Criteria A								
OTHERS	DIMENSION		703Khrs min. MIL-HDBK-217F (25°C)										
	PACKING		191*63*37.5mm (L*W* LPV-150: 0.74Kg;20pc		LPVL-150: 0.85Kg;20pc	s/17Ka/0 95CHET							
		IOT specially			for LPVL) input, rated load	•	nnerature						
NOTE					pair-wire terminated with a		•						
			olerance, line regulation		pair wire terrimated with a	o. rai a 47 ai parailoi oap	doitor.						
			der low input voltage. Please check the static characteristics for more details.										
	5. The power suppl	y is consider	ered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the										
	· ·		al 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.												
			tdoor use without direct s		of E°C /1000m	ala fau an austin luis - I	hishar than 0000 (05000)						
		•	rating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). IP water proof function installation caution, please refer our user manual before using.										
				isialialion caulion, piea	ise relei our user manual de	note using.							
			pload/PDF/LED_EN.pdf										
			for LED applications in the EU.(In the EU NPF/LPF/XLG series are recommended.) set ErP regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to main										
				-	/www.meanwell.com/service								
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MW LPVL 150 Series



MW HLG 150 Series





















■ 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

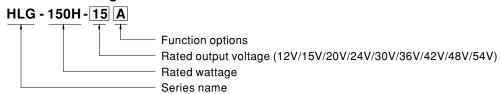
Applications

- · 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



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
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

MW HLG 150 Series

SPECIFICATION

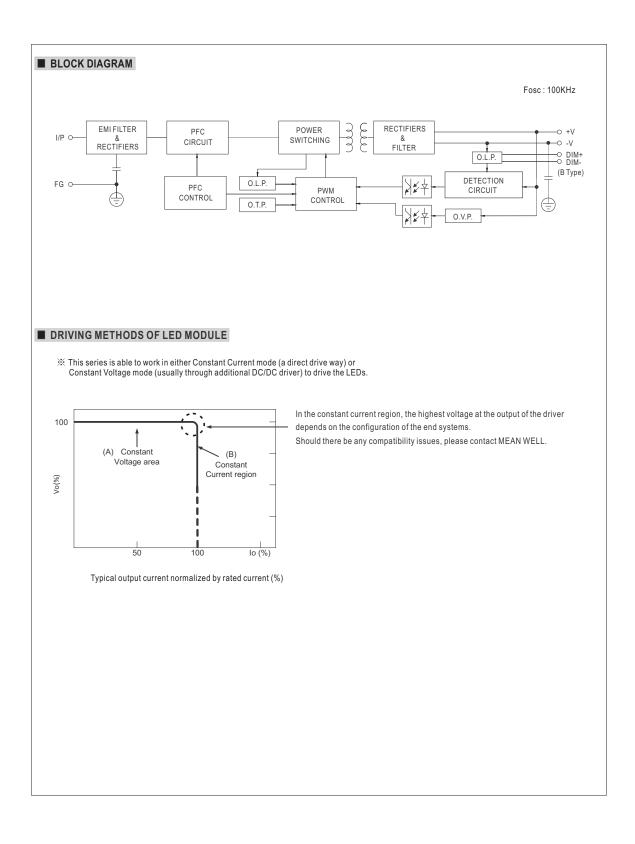
MODEL		HLG-150H-12	HLG-150H-15	HLG-150H-20	HLG-150H-24	HLG-150H-30	HLG-150H-36	HLG-150H-42	HLG-150H-48	HLG-150H-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4		7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V			
	RATED CURRENT	12.5A	10A	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	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE	-	Adjustable for A/AB-Type only (via built-in potentiometer)										
OUTPUT		10.8 ~ 13.5V		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V			
	CURRENT ADJ. RANGE	Adjustable fo	r A/AB-Type o	nly (via built-ir	n potentiomete	er)							
	CONNENT ADD. NAMOE	7.5 ~ 12.5A	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%	±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 - 11111	1 - 41477			
	HOLD UP TIME (Typ.)	16ms / 115VA		0001110,2001110	7200 1710								
	TIOLD OF TIME (Typ.)			4) (0.0									
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 43										
		`	to "STATIC CH	ARACTERIST	IC" section)								
	FREQUENCY RANGE	47 ~ 63Hz											
	DOWED EACTOR (Typ.)	PF≧0.98/115	VAC, PF≧0.9	5/230VAC, PF	≥0.92/277VA	C @ full load							
	POWER FACTOR (Typ.)	(Please refer	to "POWER FA	CTOR (PF) CH	IARACTERIST	IC" section)							
	TOTAL HARMON''S SISSESSION	THD< 20% ((@ load≧60%	/ 115VAC,230	VAC; @ load	≥75% / 277VA	C)						
INPUT	TOTAL HARMONIC DISTORTION	(Please refer	r to "TOTAL HA	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			0.7A / 277VAC		00.070	0 1 70	0470	0470			
	1,1,1					230VAC; Per NE	TMA 440						
	INRUSH CURRENT (Typ.)	COLD START	65A(Iwidtn-425	µs measured a	it 50% ipeak) at	ZSUVAC, PEI INI	EIVIA 4 IU						
	MAX. No. of PSUs on 16A	4 units (circui	4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC										
	CIRCUIT BREAKER	,				71							
	LEAKAGE CURRENT	<0.75mA/27	7VAC										
	OVER CURRENT	95 ~ 108%											
	OVER GORRERY	Constant curr	ent limiting, re	covers automa	tically after fau	ılt condition is r	emoved						
ROTECTION	SHORT CIRCUIT	Constant curr	ent limiting, re	covers automa	itically after fau	ılt condition is r	emoved						
		14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V			
	OVER VOLTAGE	Shut down o/	p voltage with a	auto-recovery	or re-power on	to recovery			-				
	OVER TEMPERATURE					erature goes do	own						
	WORKING TEMP.												
		Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)											
	MAX. CASE TEMP.	Tcase=+90°C											
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃,	10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)										
	VIBRATION	10 ~ 500Hz, 5	G 12min./1cyc	cle, period for	72min. each al	ong X, Y, Z axe	s						
		UL8750(type"	HL"), CSA C22	.2 No. 250.0-08	8; EN/AS/NZS	61347-1, EN/AS	S/NZS 61347-2-	-13 independer	nt;GB19510.1,	GB19510.14;			
	SAFETY STANDARDS	IP65 or IP67;	J61347-1, J61	347-2-13(exce	pt for B,AB and	D-type),BIS IS	315885(for 12,2	24,36,54A/B or	nly), EAC TP TC	004;			
			C61347-2-13(e			2. /-	,		***				
SAFETY &	WITHSTAND VOLTAGE		KVAC I/P-F			C							
EMC	ISOLATION RESISTANCE		G, O/P-FG:10				N 0 (0 l	1>000/\ E110	4000 0 0				
	EMC EMISSION					EN61000-3-2 C	class C (@ load	1≥60%); EN6	1000-3-3,				
	EMC IMMUNITY	GB17743 and GB17625.1, EAC TP TC 020 Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 0:											
	MTBF	192.2K hrs m		3K-217F (25°C		igitt industry ieve	i (surge illillullit	y Lillo-Larut 4100	, Line-Line Zitty)	, LAO II TO 0			
0711500				SK-2171 (23 €	,								
OTHERS	DIMENSION	228*68*38.8n		UCT									
	PACKING		s/14.8Kg/0.8Cl										
NOTE	All parameters NOT special	-											
	''	red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.											
		up tolerance, line regulation and load regulation.											
		METHODS OF LED MODULE". I under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.											
	, ,		•										
	6. Length of set up time is mea								l ha affactad b	v tho			
	7. The driver is considered as								be anected by	y ii le			
	complete installation, the fin- 8. To fulfill requirements of the							-	ermanently				
	connected to the mains.	iaiesi EIF 1egi	mation for light	ing iixtules, [[]	is LED GINGL	can only De US	eu penniu a SV	vitori vvitriout p	omanemy				
	This series meets the typica	l life expectano	v of >62 000 1	hours of oners	ition when Too	ise narticularly	(tc) point (or 7	MP per DIC) is about 80°	C or less			
	This series meets the typical The series meets the typical The series meets the typical This series meets the typical	•					- Politi (01 1	, poi DLO	,, .o about 00 (J 01 1000.			
	11. The ambient temperature of	•			•		models for or	perating atitud	e higher than ?	2000m/6500			
	12 For any application note an								g				

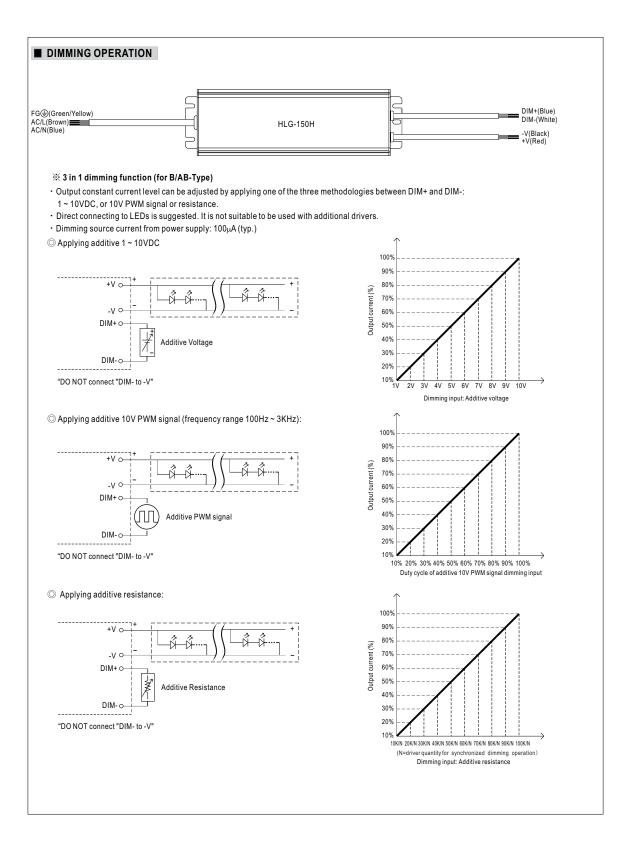
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https://www.meanwell.com/Upload/PDF/LED_EN.pdf

12. For any application note and IP water proof function installation caution, please refer our user manual before using.

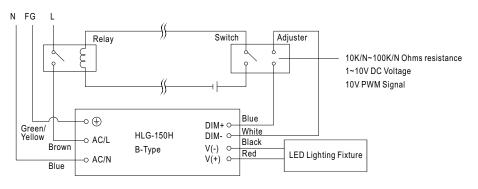
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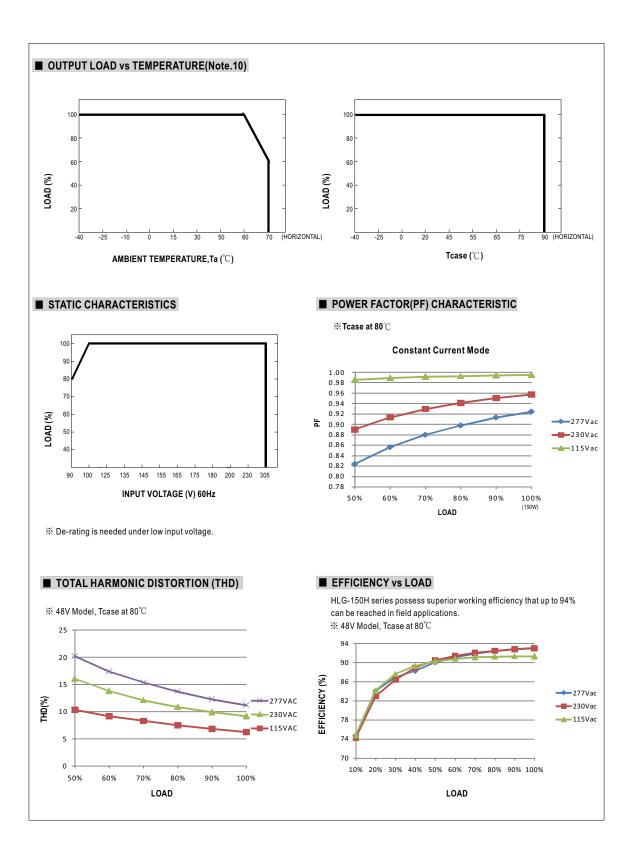


MW HLG 150 Series

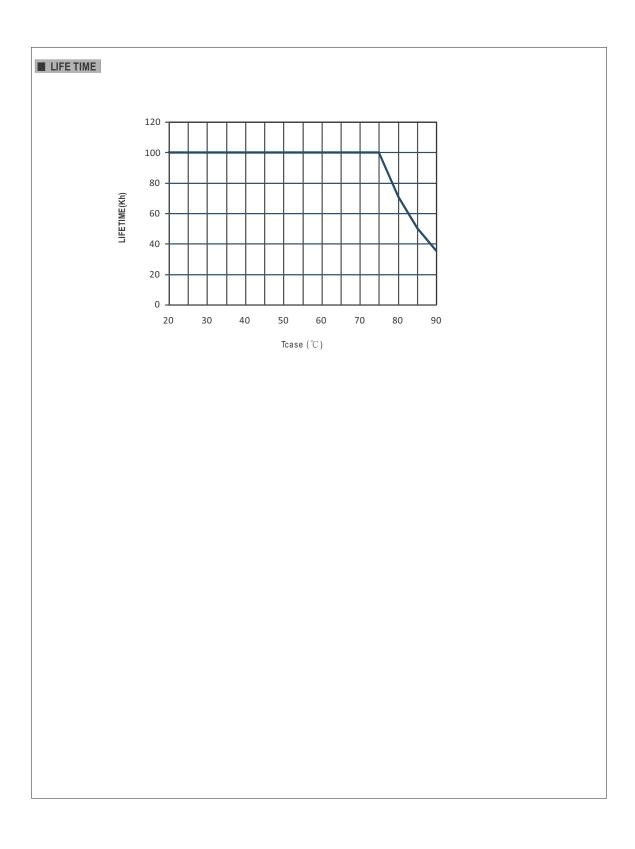
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.

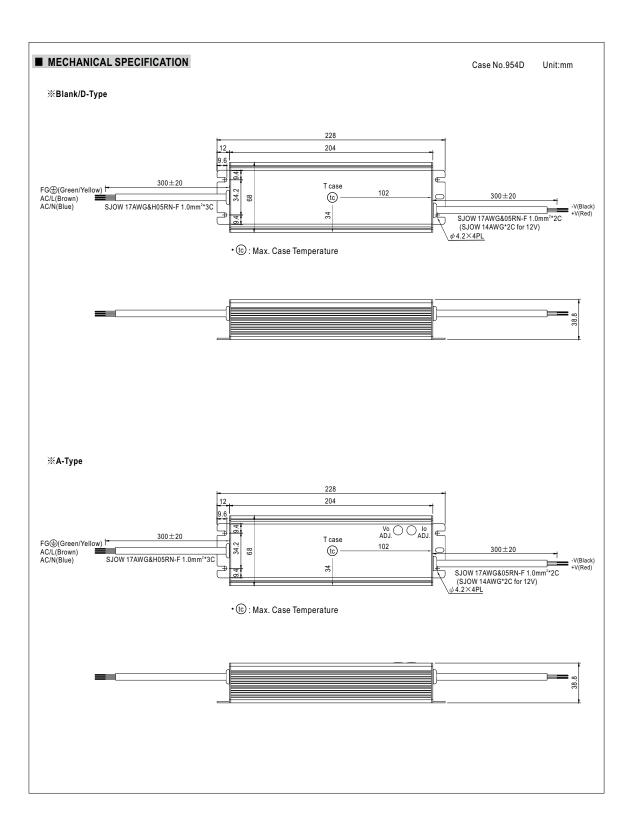


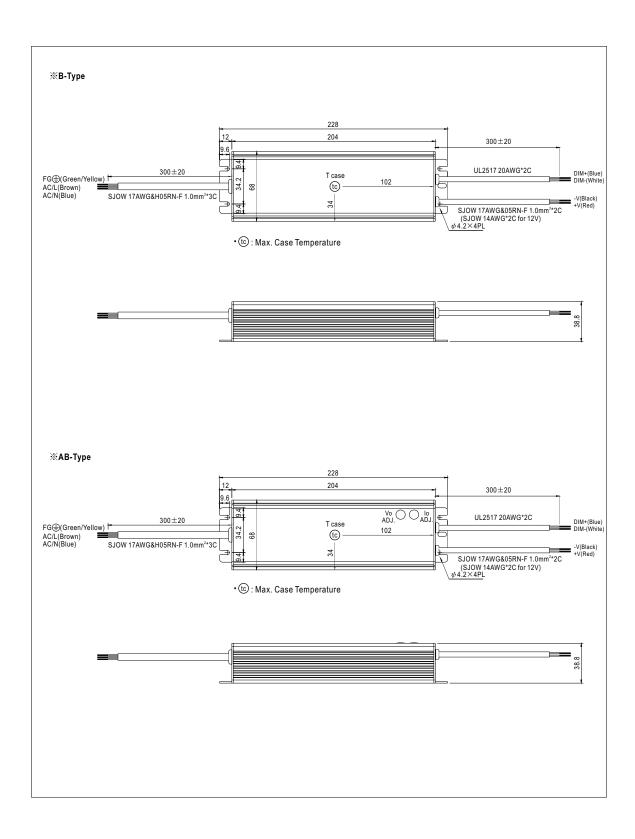
Using a switch and relay can turn ON/OFF the lighting fixture.

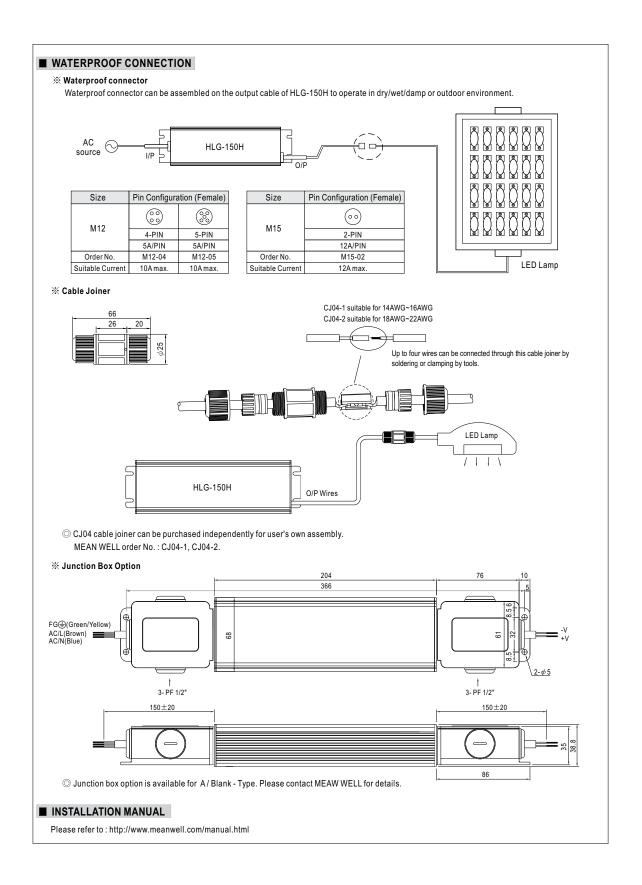












MW HLG 240 Series























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

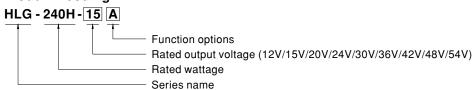
Applications

- · 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

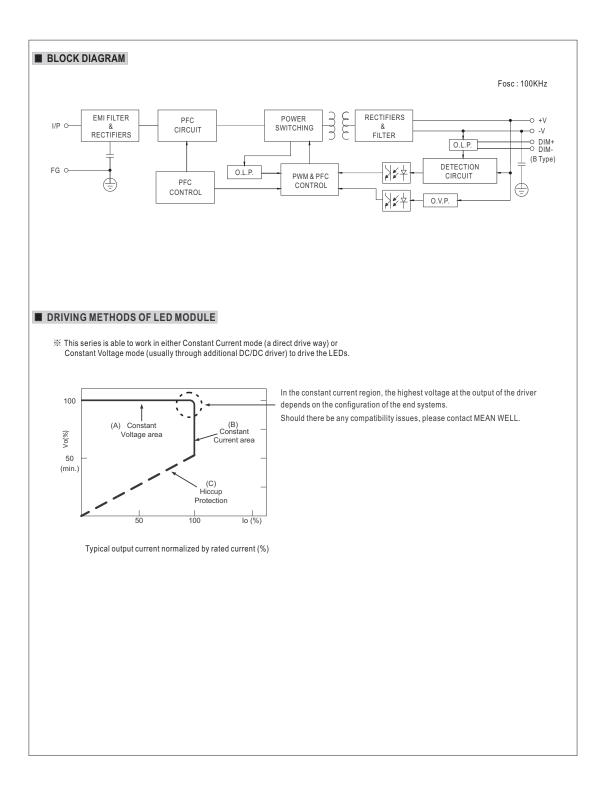
MW HLG 240 Series

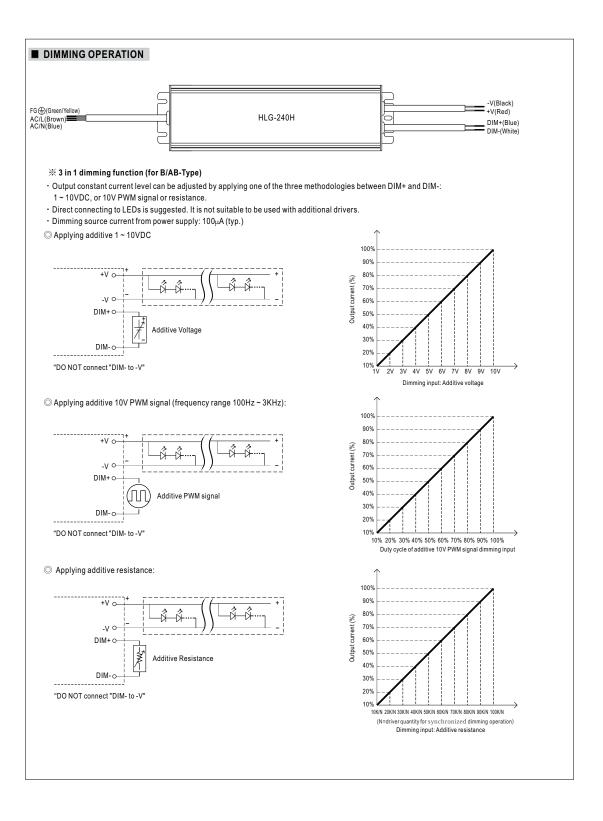
SPECIFICATION

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			
	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	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			
	, ,			only (via built									
	VOLTAGE ADJ. RANGE	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											
OUTPUT		Adjustable fo	r A/AB/C-Type	only (via built	-in potentiom	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	s/115VAC 5	00ms,80ms/2									
	HOLD UP TIME (Typ.)	15ms / 115VA											
	(717)	90 ~ 305VAC	127 ~ 431	1VDC									
	VOLTAGE RANGE Note.5			ARACTERIST	C" section)								
	FREQUENCY RANGE	47 ~ 63Hz											
			≥ 0.98/115VAC, PF≥ 0.95/230VAC @ full load										
	POWER FACTOR (Typ.)		Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)										
		THD< 20% (@ load≥50% / 115VAC 230VAC: @ load≥75% / 277VAC)											
INPUT	TOTAL HARMONIC DISTORTION		D< 20% (@ load≧50% / 115VAC,230VAC; @ load≧75% / 277VAC) ease refer to "TOTAL HARMONIC DISTORTION (THD)" 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		277VAC	02.070	02.070	02.070	0070	00.070			
	INRUSH CURRENT (Typ.)					230VAC: Per NE	MA 410						
	MAX. No. of PSUs on 16A		OLD START 75A(twidth=570µs measured at 50% Ipeak) at 230VAC; Per NEMA 410										
	CIRCUIT BREAKER	2 units (circui	t breaker of typ	e B) / 4 units	circuit breaker	of type C) at 23	30VAC						
	LEAKAGE CURRENT	<0.75mA/277VAC											
		95 ~ 108%											
	OVER CURRENT		ent limiting rea	covers automa	tically after fau	It condition is re	emoved						
	SHORT CIRCUIT			matically after			J0104						
PROTECTION		13.5 ~ 18V 17.5 ~ 21.5V 23.5 ~ 27.5V 27 ~ 34V 33 ~ 39V 43 ~ 49V 48 ~ 54V 55 ~ 63V 60 ~											
	OVER VOLTAGE			voltage, re-pov		er							
	OVER TEMPERATURE						down						
	WORKING TEMP.	Shut down o/p voltage, recovers automatically after temperature goes down Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)											
	MAX. CASE TEMP.	Tcase=+90°C											
	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			le period for	72min_each ald	ong X Y 7 axe	s						
	SAFETY STANDARDS	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL 1012, CAN/CSA-C22.2 No. 107.1-01, UL8750(type*IL**), 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 C-type); IP67-151347-1, J61347-2-13(except for B, AB and D-type), BIS IS15885(for 48V only), EAC TP TC 004, KC61347-2-13(except for AB, C,D-type) approved											
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC										
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms / 50	0VDC / 25°C /	70% RH							
	EMC EMISSION	GB17743 and	GB17625.1,E	AC TP TC 020	KC KN15,KN6	N61000-3-2 C 1547(except fo	r AB,C,D-type)) , ,	·				
	EMC IMMUNITY			2,3,4,5,6,8,11, N61547(excep		5024, light indu pe)	ıstry level (surç	ge immunity Lir	ne-Earth 4KV, L	ine-Line 2KV)			
	MTBF	729.2K hrs mi	in. Telcordia	SR-332 (Bello	ore); 207.9K h	nrs min. MIL	-HDBK-217F (2	25°C)					
OTHERS	DIMENSION		. ,,	HLG-240H-Bla		51*68*38.8mm							
	PACKING	Ţ		UFT(HLG-240-		0. 1		CUFT(HLG-24	0 C-Type)				
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up Please refer to "DRIVING N De-rating may be needed u Length of set up time is me The driver is considered as complete installation, the fin To fulfill requirements of the connected to the mains. This series meets the typica The ambient temperature u The ambient temperature Temple and the series meets the sypical to the marrant.	d at 20MHz of tolerance, line IETHODS OF nder low input asured at first a component all equipment relatest ErP regular life expectancy statement of derating of 3.5	f bandwidth by regulation and LED MODULI voltages. Pleacold start. Turr that will be open anufacturers ulation for light cy of >62,000 n MEAN WELI	r using a 12" to discovere a control of the control	wisted pair-wire on. FATIC CHARA the driver may bination with fir the EMC Directiv tis LED driver attion when Tca thttp://www.me. tls and of 5°C/	e terminated w ACTERISTIC" s lead to increas all equipment. we on the comp can only be us ase, particularly anwell.com.	ith a 0.1uf & 4 sections for detections for detections for detections for detection fo	Tuf parallel cap tails. p time. erformance will n again. witch without p TMP, per DLC perating altitud	be affected by ermanently), is about 75%	C or less.			
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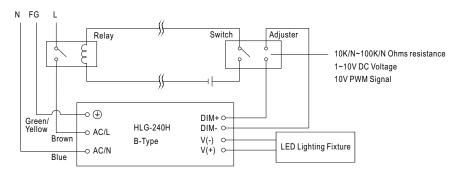




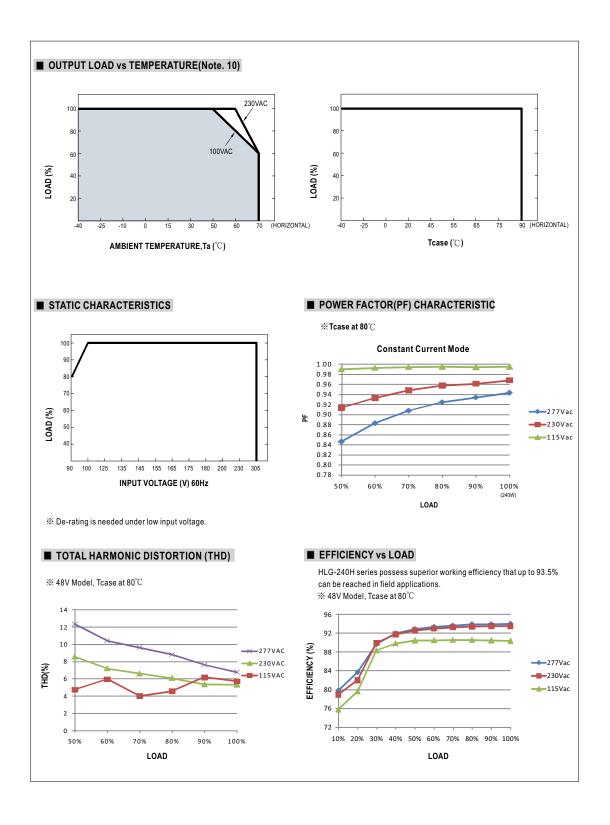


MW HLG 240 Series

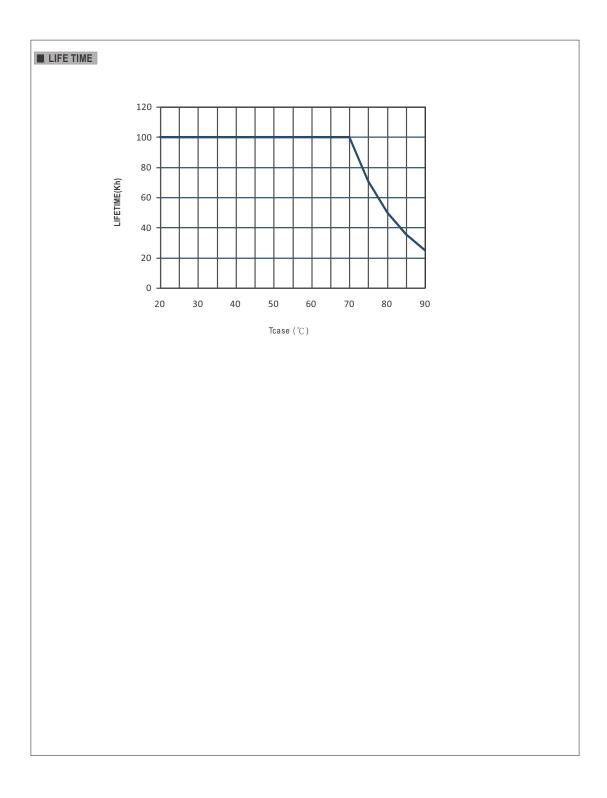
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.

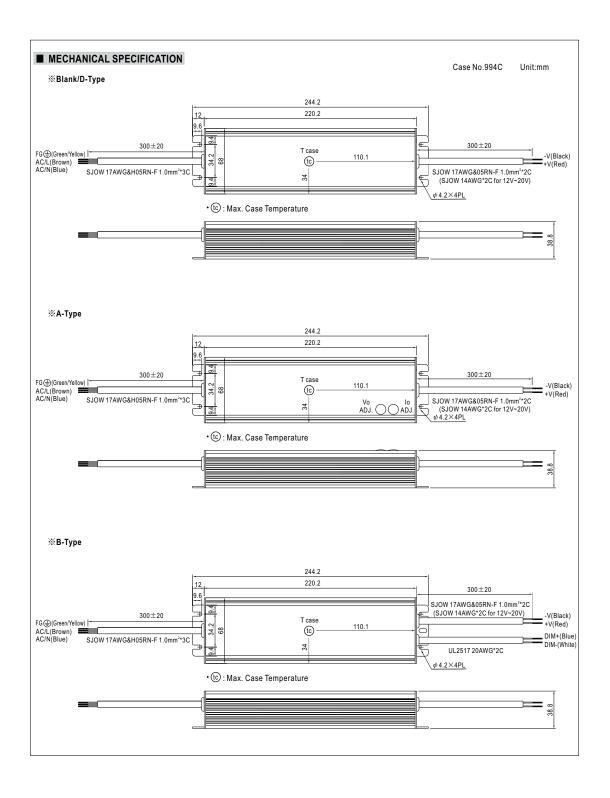


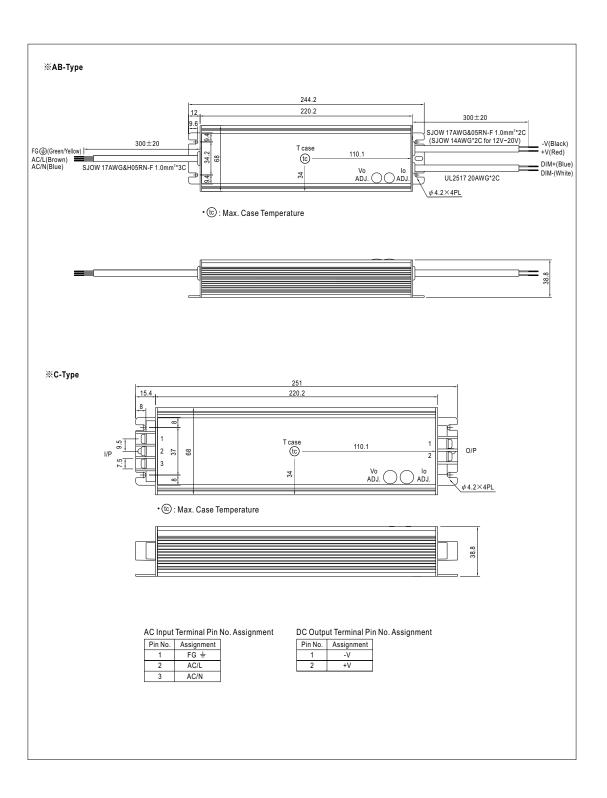
Using a switch and relay can turn ON/OFF the lighting fixture.

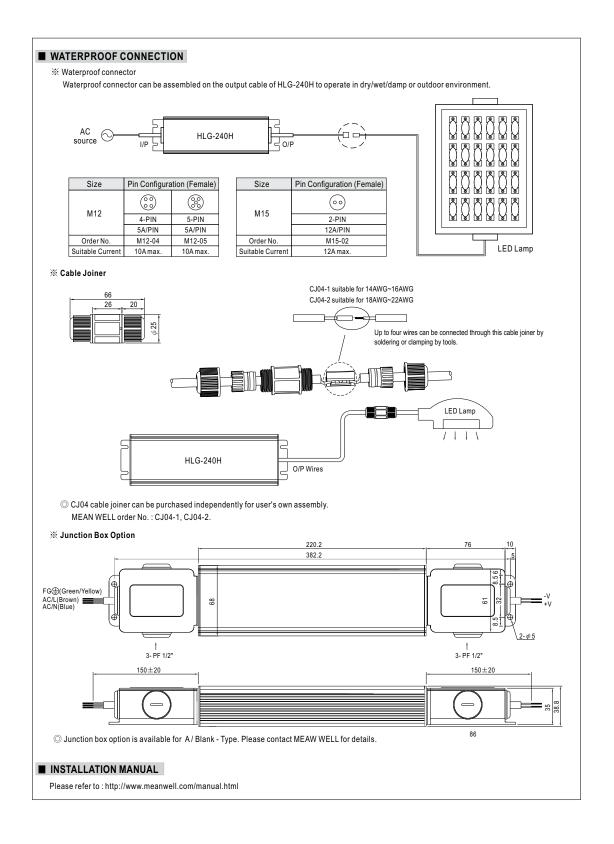












HLG 320 Series



SKU: 150011 - MW HLG 320-24

HLG 320 Series



■ Features :

- 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 I, 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.

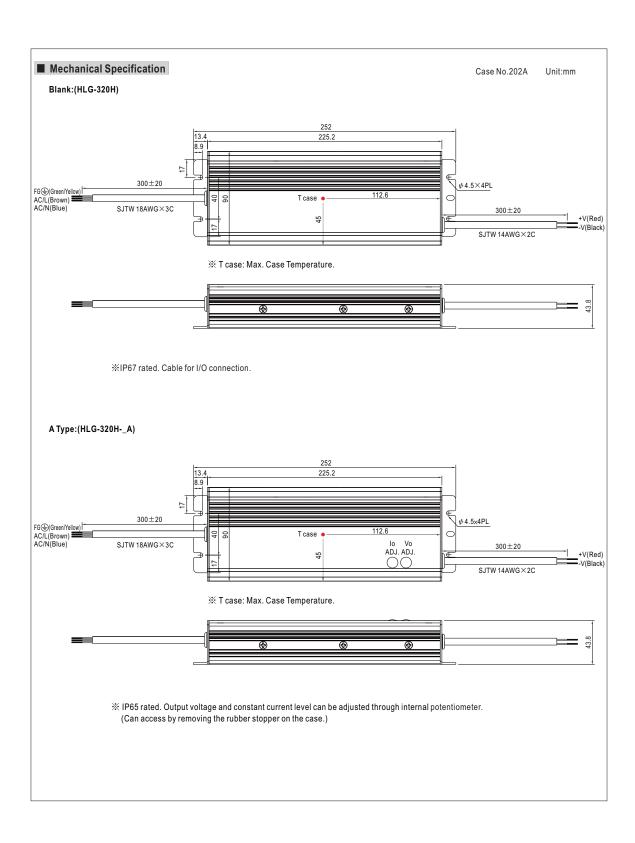
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or PWM signal or resistance.
- C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internalpotentiometer.
- D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

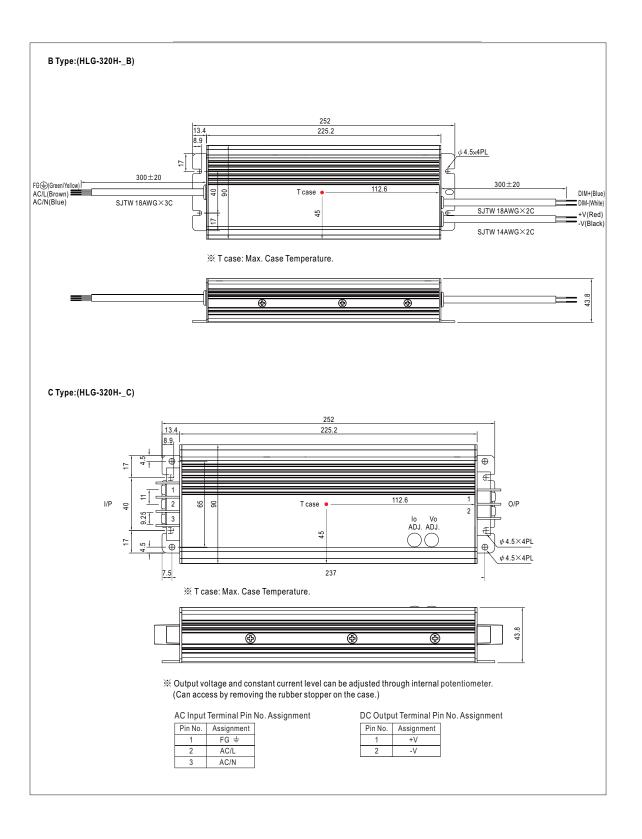
MODEL		0 00011 40	III 0 000II 45				HLG-320H-36	HLG-320H-42	0 20011 40				
MODEL		HLG-320H-12	HLG-320H-15	HLG-320H-20		HLG-320H-30			HLG-320H-48	HLG-320H-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
		6 ~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V			
	RATED 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			
	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	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	21 ~ 26V	26 ~ 32V	32 ~ 39V	38 ~ 45V	43 ~ 52V	49 ~ 58V			
OUTPUT	CURRENT ADJ. RANGE	Can be adjust	ed by internal p	otentiometer A	A type and C typ	pe only							
	CURRENT ADJ. RANGE	11 ~ 22A	9.5 ~ 19A	7.5 ~ 15A	6.67 ~ 13.34A	5.35 ~ 10.7A	4.45 ~ 8.9A	3.8 ~ 7.65A	3.35 ~ 6.7A	2.97 ~ 5.9			
	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	00ms,80ms/2	30VAC at full I	oad							
	HOLD UP TIME (Typ.)	15ms at full lo	ad 230VAC /	115VAC									
	VOLTAGE RANGE Note.5	00 ~ 305VAC 127 ~ 431VDC											
	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	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.94/27/VAC at full load (Please refer to "Power Factor Characteristic" curve) THD< 20% when output loading ≥ 50% at 115VAC/230VAC input and output loading ≥ 75% at 277VAC 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			1.45A / 277VAC		3370	0070	0070	3070			
	INRUSH CURRENT(Typ.)	3.5A / 115VAC											
	MAX. No. of PSUs on 16A CIRCUIT BREAKER		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	Protection type : Constant current limiting, recovers automatically after fault condition is removed											
	CHORT CIRCUIT			0.	fault condition		auit condition is	s removed					
PROTECTION	SHORT CIRCUIT	14 ~ 17V			27 ~ 33V	33 ~ 37V	40 ~ 46V	46.5 ~ 53V	53.5 ~ 60V	59 ~ 65V			
	OVER VOLTAGE							40.0 - 550	33.3 · 00 V	J3 - 03V			
	OVER TEMPERATURE	Protection type : Shut down and latch off o/p voltage, re-power on to recover Shut down and latch off o/p voltage, re-power on to recover											
	OVER TEMPERATURE	-40 ~ +70°C (Refer to "Derating Curve")											
	WORKING TEMP.	,											
	WORKING HUMIDITY	20 ~ 95% RH non-condensing											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,											
	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.7				7-1, EN61347-	2-13 independ	ent, IP65 or IP6	67 (except for H	ILG-320H C ty	pe), J61347			
	O'AL ZITTO IN HILD AND THOUSE	J61347-2-13 (except for HLG-320H C type) approved											
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F0	G:2KVAC O	P-FG:1.5KVA	С							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	0M Ohms / 50	0VDC / 25°C / `	70% RH							
EIVIC	EMC EMISSION	Compliance t	EN55015, EN	155022 (CISPR	(22) Class B, E	N61000-3-2 C	lass C (≥50%	load); EN610	00-3-3				
	EMC IMMUNITY	Compliance t	EN61000-4-2	,3,4,5,6,8,11, 1	EN61547, EN5	5024, light indu	ıstry level (sur	ge 4KV), criter	ia B				
	MTBF	157.1K hrs m	n. MIL-HDB	K-217F (25°C))								
OTHERS	DIMENSION	252*90*43.8r	nm (L*W*H)										
	PACKING	1.88Kg; 8pcs/	1.88Kg; 8pcs/16Kg/0.92CUFT										
NOTE	2. Ripple & noise are measure 3. Tolerance: includes set up 4. Please refer to "DRIVING M 5. Derating may be needed ur 6. A type and C type only. 7. Safety and EMC design reft 8. Length of set up time is me 9. The power supply is considionty complete installation, the fin	NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. are measured at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Iddes set up to learneae, line regulation and load regulation. DRIVINIG METHODS OF LED MODULE*: needed under low input voltages. Please check the static characteristics for more details.											



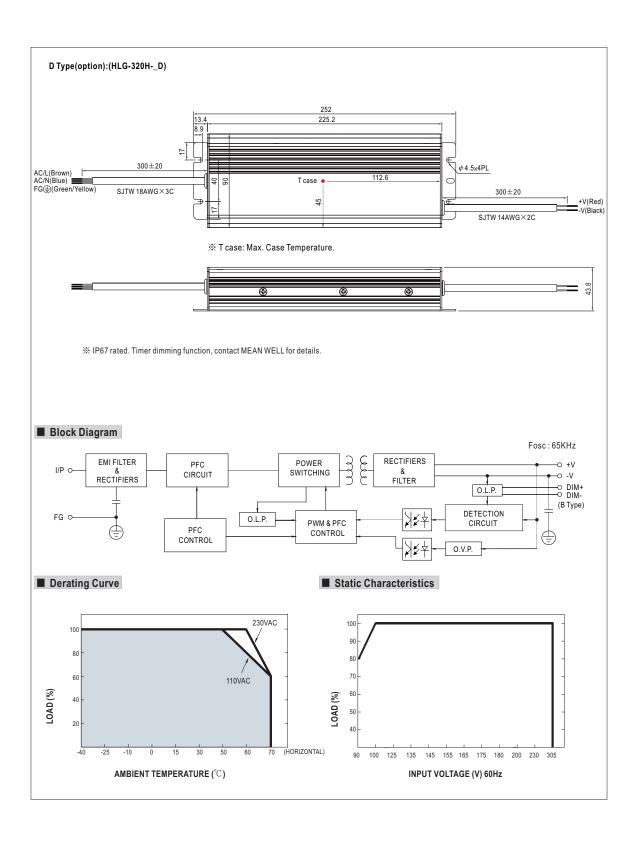
HLG 320 Series



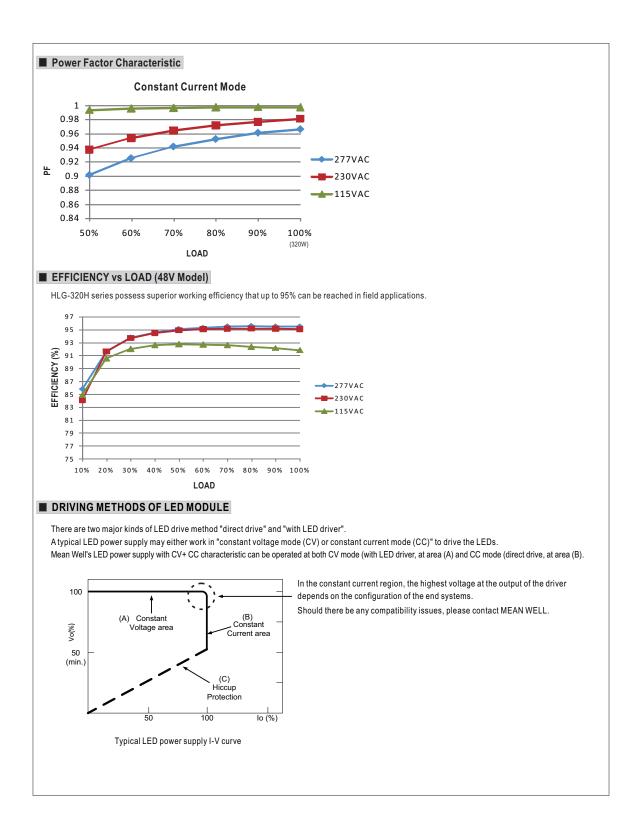
HLG 320 Series



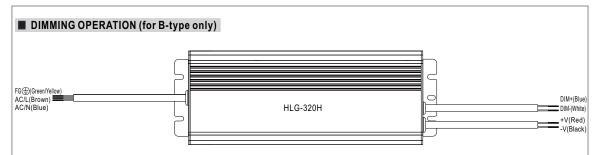
HLG 320 Series



HLG 320 Series



HLG 320 Series



- 💥 Built-in 3 in 1 dimming function, IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistance or
 - $1 \sim 10 \, \text{Vdc}$ or $10 \, \text{V}$ PWM signal between DIM+ and DIM-.
- ※ Please DO NOT connect "DIM-" to "-V".
- $\ensuremath{\,\times\,} \ensuremath{\,\text{Reference resistance value for output current adjustment (Typical)}}$

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

¾ 1 ~ 10V dimming function for output current adjustment (Typical)

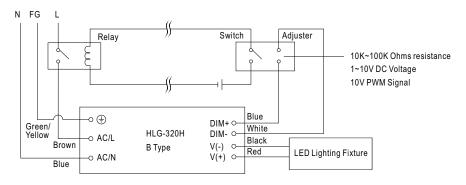
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN	
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%	

imes 10V PWM signal for output current adjustment (Typical): Frequency range :100HZ \sim 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%

- WUsing 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.
- $\frak{\mathcal{W}}$ Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

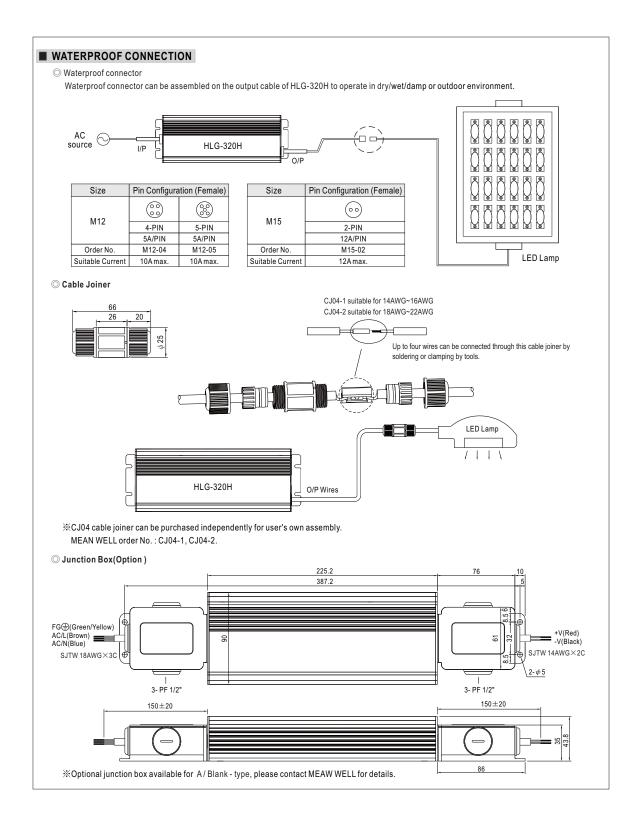
Dimming connection diagram for turning the lighting fixture $\mbox{ON/OFF}$:



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-.
- ${\it 2.} The \ LED \ lighting \ fixture \ can \ be \ turned \ ON/OFF \ by \ the \ switch.$

HLG 320 Series



MW LRS 200 Series





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°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

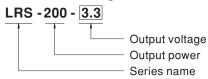
Description

LRS-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 $^{\circ}$ C through 70 $^{\circ}$ C 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



MW LRS 200 Series

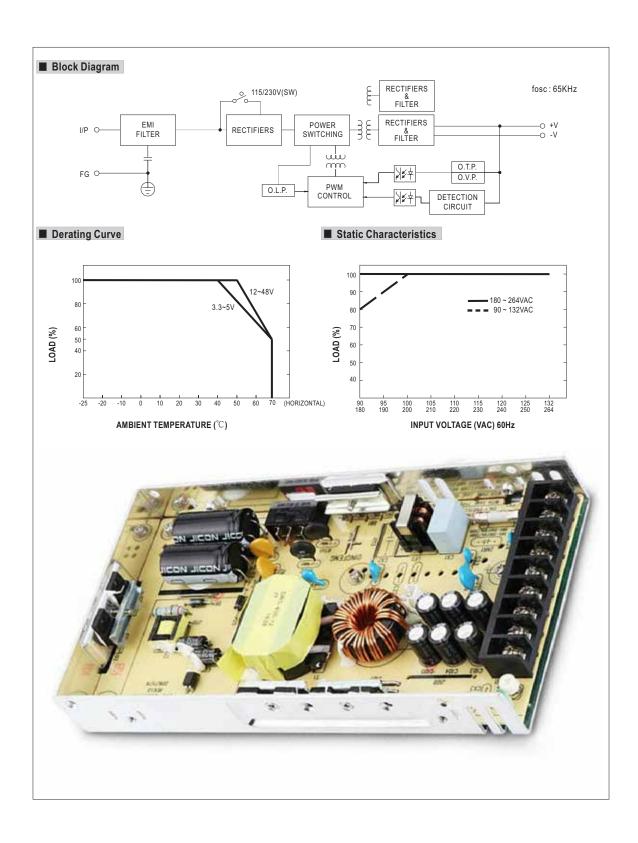
SPECIFICATION

MODEL		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				
OUTPUT	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	±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, 50m	s/230VAC	1300ms,50ms	s/115VAC at fu	II load							
	HOLD UP TIME (Typ.)	16ms/230VAC	12ms/115	VAC at full load	l								
	VOLTAGE RANGE	90 ~ 132VAC	/ 180 ~ 264VA	C by switch	240 ~ 370VI	DC (switch o	n 230VAC)						
	FREQUENCY RANGE	47 ~ 63Hz		•		`							
	EFFICIENCY (Typ.)	83%	86%	87%	87.5%	88%	89.5%	89.5%	90%				
INPUT	AC CURRENT (Typ.)	4A/115VAC	2.2A/230V	AC									
	INRUSH CURRENT (Typ.)	COLD STAR 60A/115VAC 60A/230VAC											
	LEAKAGE CURRENT	<2mA/240VAC											
		110 ~ 140% ra	ated output pov	wer									
PROTECTION	OVER LOAD			de, recovers au	ıtomatically aft	er fault condition	on is removed						
		3.8 ~ 4.45V			13.8 ~ 16.2V			41.4 ~ 46.8V	55.2 ~ 64.8V				
	OVER VOLTAGE								00.2				
	OVER TEMPERATURE	Protection type: Hiccup mode, recovers automatically after fault condition is removed 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											
FNVIRONMENT													
LIVINORIILI	TEMP. COEFFICIENT	±0.03%°C (0~50°C)											
	VIBRATION	,		cle, 60min. eac	h along X Y 7	axes							
	SAFETY STANDARDS			86-1, EAC TP T									
SAFETY	WITHSTAND VOLTAGE					··u							
SAFEII	ISOLATION RESISTANCE	I/P-0/P:3KVAC I/P-FG:2KVAC 0/P-FG:0.5KVAC											
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH											
	EMC IMMUNITY	Compliance to BSMI CNS13438, EAC TP TC 020 Compliance to EAC TP TC 020											
		•			1								
OTHERS	MTBF DIMENSION	347.5K hrs min. MIL-HDBK-217F (25°C)											
UTHERS		215*115*30mm (L*W*H) 0.66Kg; 15pcs/10.9Kg/0.78CUFT											
NOTE	PACKING 1. All parameters NOT spe	0. 1			Cinners waterd	lead and OF°C	af amalai ama sa						
	Ripple & noise are meas Tolerance: includes set Line regulation is measu Length of set up time is time. The 150% peak load cap for over 1 second and w The ambient temperatur This power supply does under the following cond a) the end-devices is us b) the end-devices is us c) the power supply is: installed in end-devi	sured at 20MI- up tolerance, irred from low I ured from 0% measured at a pability is built fill recover once de derating of 5 not meet the littions: sed within the onnected to pu	Iz of bandwidt line regulatior ine to high lin- to 100% rated cold first start. in for up to 1 se e it resumes in "C/1000m is harmonic curr European Uni liblic mains suj age or continu	th by using a an and load reg e at rated load. I urning ON/C second for 12-to the rated conneeded for open trequireme ion, and pply with 220\	12" twisted pai ulation. I. DFF the power -48V.LRS-200 urrent level(11! erating altitude ints outlined by	r-wire termina supply very control will enter hick 5VAC/230VAC e greater than of EN61000-3-2 rated nominal	ted with a 0.10 uickly may lea cup mode if th c). 2000m(6500ff 2. Please do n	uf & 47uf para ad to increase e peak load is	of the set up				

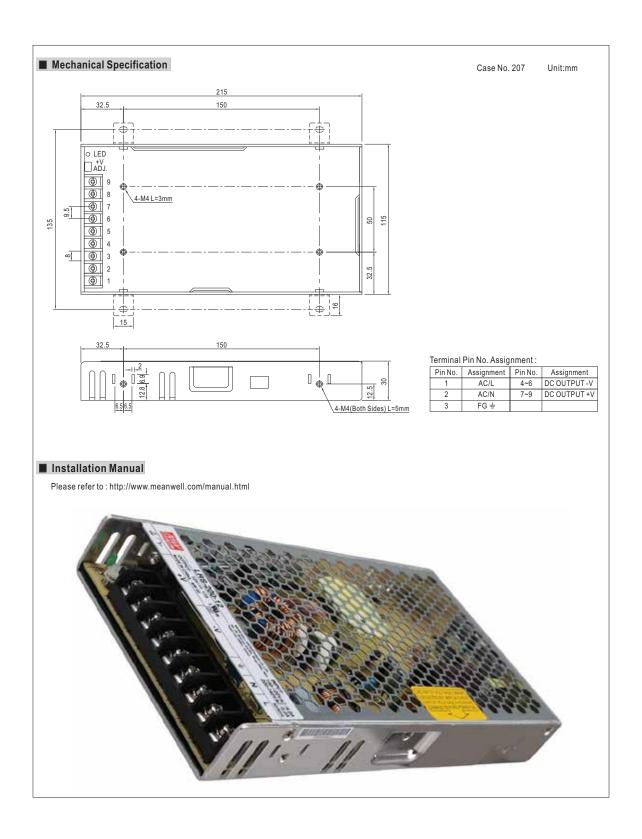


Power supplies used within the following end-devices do not need to fulfill EN61000-3-2
a) professional equipment with a total rated input power greater than 1000W;
b) symmetrically controlled heating elements with a rated power less than or equal to 200W

MW LRS 200 Series



MW LRS 200 Series



MW LRS 350 Series





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

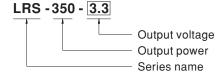
- Industrial automation machinery
- · Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus

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~ $+70^{\circ}$ C 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



MW LRS 350 Series

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 ~ 52.8					
	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	s/230VAC	1300ms,50ms	s/115VAC at fu	ll load								
	HOLD UP TIME (Typ.)	16ms/230VAC	12ms/115	VAC at full load	d									
	VOLTAGE RANGE	90 ~ 132VAC	/ 180 ~ 264VA	C by switch	240 ~ 370VE	C (switch o	n 230VAC)							
	FREQUENCY RANGE	47 ~ 63Hz												
INPUT	EFFICIENCY (Typ.)	79.5%	81.5%	83.5%	85%	86%	88%	88.5%	89%					
	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 type: Hiccup mode, recovers automatically after fault condition is removed												
PROTECTION	OVER VOLTAGE	3.8 ~ 4.45V			13.8 ~ 16.2V			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												
	FAN ON/OFF CONTROL	RTH3≥50°C FAN ON, ≤40°C FAN OFF												
FUNCTION	(Typ.)	INTIDE DU CIAN DIN, = 40 C FAIN 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	86-1, 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 CNS13	438, EAC TP T	C 020									
	EMC IMMUNITY		EAC TP TC 02											
	MTBF	327.9K hrs m		3K-217F (25°C)									
OTHERS	DIMENSION	215*115*30m		(,									
	PACKING		s/12.4Kg/0.78	CUFT										
			ed are measi											

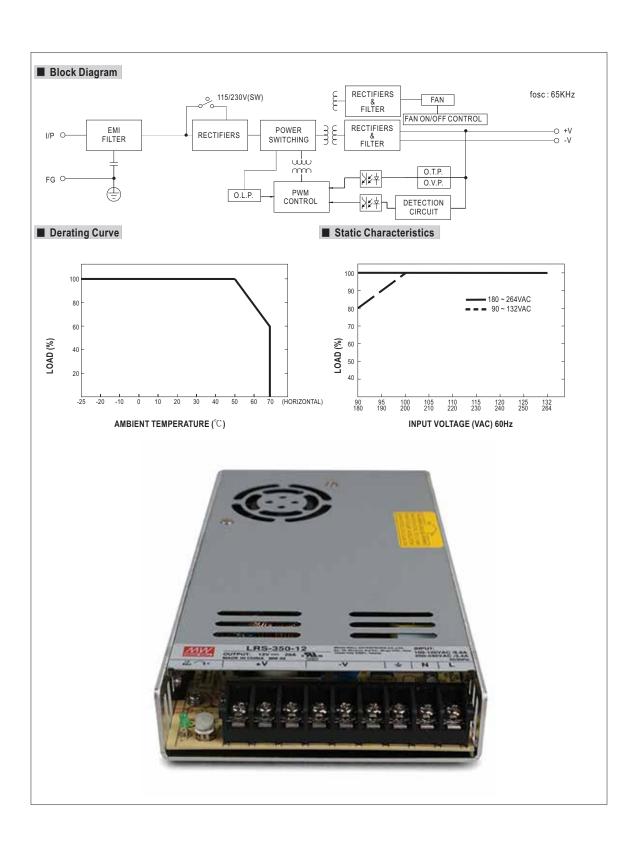
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

 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



MW LRS 350 Series



MW LRS 350 Series

