

IS 15885(Part 2/Sec13)

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R-41027766

48A.48B.60A. 60DA only)



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(CCC optional)

### (for DA Type only)

· Constant Voltage + Constant Current mode output

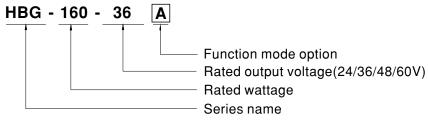
(except for DA Type)

- MEAN WELL patented circular metal housing with class I design(Patent No.: CN201220314551)
- Built-in active PFC function
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming; DALI
- Typical lifetime>50000 hours
- 5 years warranty

#### Description

HBG-160 series is a 160W AC/DC LED driver featuring the circular shape design. It operates from 90~305VAC and offers the dual modes constant voltage and constant current output models with different rated voltage between 24Vand 60V. Thanks to the high efficiency up to 93.5%, with the fanless design, the entire series is able to operate for -40 $^{\circ}$ C ~ +85 $^{\circ}$ 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. HBG-160 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	lo fixed.	In Stock
A	IP65	lo 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 adjustable through built-in potentiometer with 3 in 1 dimming function	In Stock
DA	IP67	DALI control technology.	In Stock

#### Applications

- LED bay lighting
- LED stage lighting
- LED spot lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

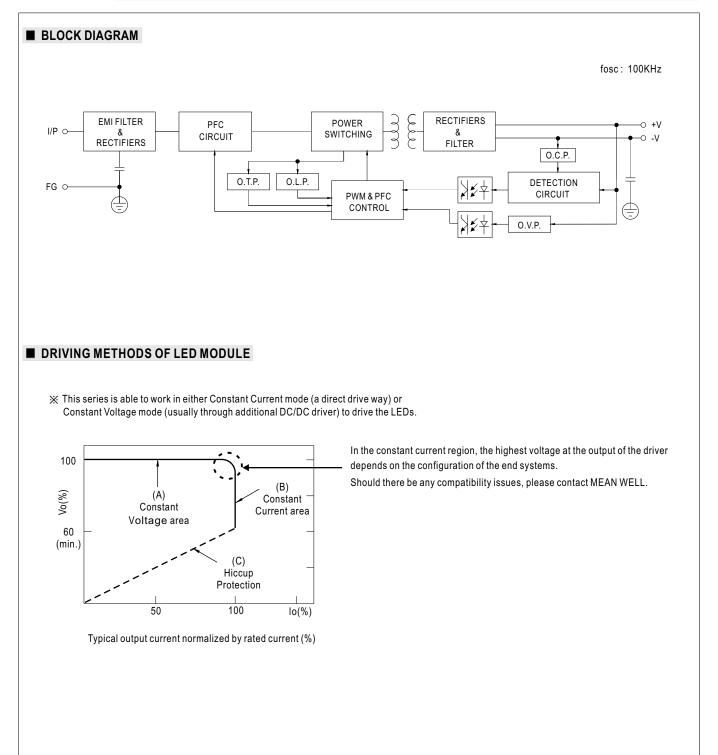


## HBG-160 series

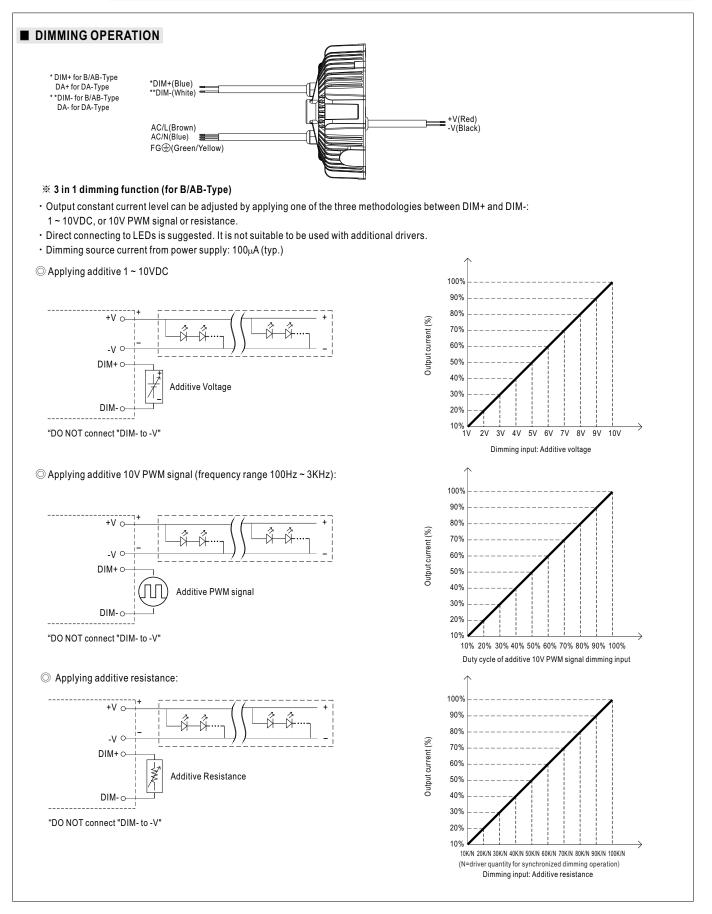
#### SPECIFICATION

MODEL	•	HBG-160-24	HBG-160-36	HBG-160-48	HBG-160-60			
	DC VOLTAGE	24V	36V	48V	60V			
	CONSTANT CURRENT REGION Note.2		21.6 ~ 36V	28.8~48V	36~60V			
OUTPUT	RATED CURRENT	6.5A	4.4A	3.3A	2.6A			
	RATED POWER	156W	158.4W	158.4W	156W			
	-		300mVp-p	300mVp-p				
	RIPPLE & NOISE (max.) Note.3			300111vp-p	300mVp-p			
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type (via b		4.00 0.04	10.004			
		3.9 ~ 6.5A	2.6 ~ 4.4A	1.98 ~ 3.3A	1.6 ~ 2.6A			
	VOLTAGE TOLERANCE Note.4	±2.0%						
	LINE REGULATION	±0.5%						
	LOAD REGULATION							
	SETUP, RISE TIME Note.6		500ms, 200ms / 230VAC					
	HOLD UP TIME (Typ.)	12ms /115VAC, 230VAC						
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	POWER FACTOR	FACTOR PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION		/C,230VAC; @load≧75%/277 MONIC DISTORTION(THD)" s					
	EFFICIENCY (Typ.) Note.7	92%	92%	93%	93.5%			
	AC CURRENT (Typ.)	1.7A / 115VAC 0.78A / 230	0VAC 0.7A / 277VAC					
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=550µ	s measured at 50% lpeak) at 23	0VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type	of type B) / 7 units (circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	<0.75mA / 277VAC						
PROTECTION	OVER CURRENT	95 ~ 108% Constant current limiting, recov	ers automatically after fault conc	lition is removed				
	SHORT CIRCUIT	Hiccup mode, recovers autom	atically after fault condition is re	emoved				
	OVER VOLTAGE	28 ~ 34V Shut down o/p voltage with auto	41 ~ 47V p-recovery or re-power on to reco	54 ~ 62V	65~75V			
	OVER TEMPERATURE		s automatically after temperature	•				
ENVIRONMENT H	WORKING TEMP.		fer to " OUTPUT LOAD vs TEM	IPERATURE Section)				
	MAX. CASE TEMP.	Tcase=+85°C						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL8750(type"HL"),CSA C22.2 No.250.13-12, TUV EN61347-1,EN61347-2-13; BIS IS15885(for 36A,48A,48B,60A,60DA only), EAC TP TC 004, GB19510.1,GB19510.14, IP65 or IP67 approved, design refer to TUV EN60950						
	DALI STANDARDS	Compliance to IEC62386-101, 1	102, 207 for DA-Type only					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2	KVAC O/P-FG:0.5KVAC					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M	l Ohms / 500VDC / 25°C / 70% R	RH				
	EMC EMISSION	Compliance to EN55015, EN61	000-3-2 Class C (@load≧60%)	) ; EN61000-3-3, GB17743 an	d GB17625.1,EAC TP TC 020			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4	5,6,8,11, EN61547, light industry	level (surge immunity:Line-Ear	th:4KV,Line-Line:2KV), EAC TP TC 02			
	MTBF	783.1K hrs min. Telcordia SF	R-332 (Bellcore); 252.3Khrs mi	in. MIL-HDBK-217F (25℃)	)			
OTHERS	DIMENSION	$\phi$ 151.68mm *66.5mm (D * H)						
F	PACKING	1.53Kg; 8pcs/13.8Kg/1.61CUFT	-					
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>Length of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time.</li> <li>The DA type power supply is less efficient than the typical efficiency in specification by 1%.</li> <li>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.</li> <li>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.</li> <li>This series meets the typical life expectancy of &gt;50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 70°C or less.</li> <li>Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</li> <li>The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan edus and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</li> <li>For any application note and IP water proof function installation caution, please refer our user manual before using.</li> </ol>							
		d IP water proof function installa						





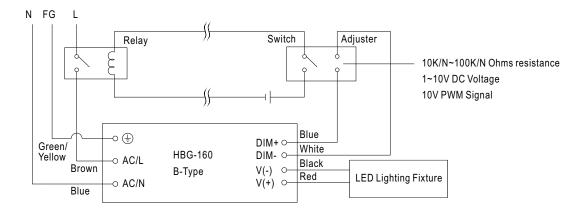






## HBG-160 series

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.

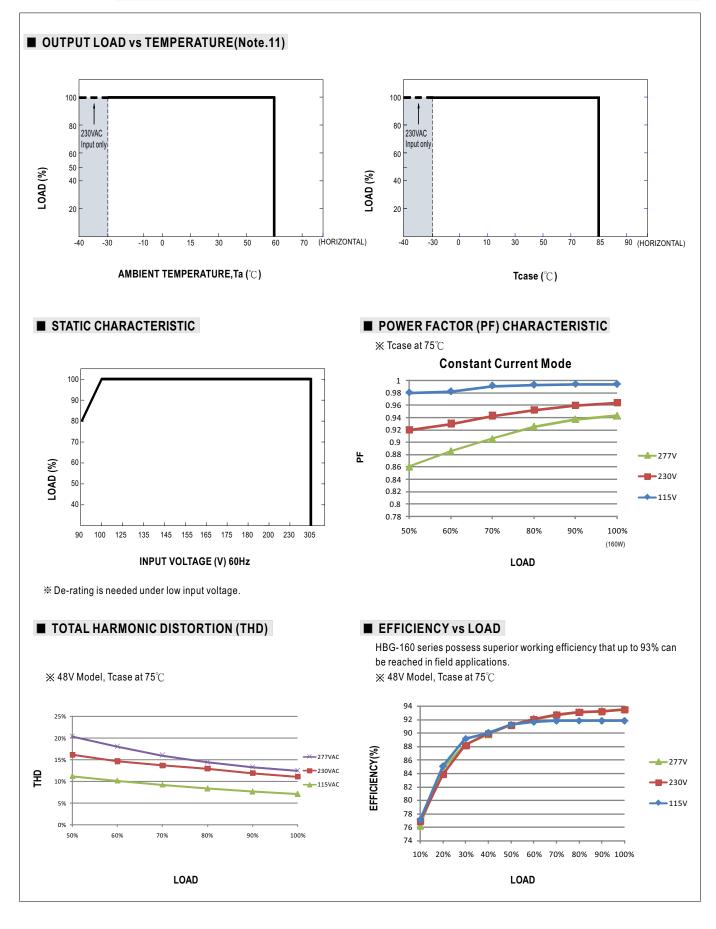


Using a switch and relay can turn ON/OFF the lighting fixture.

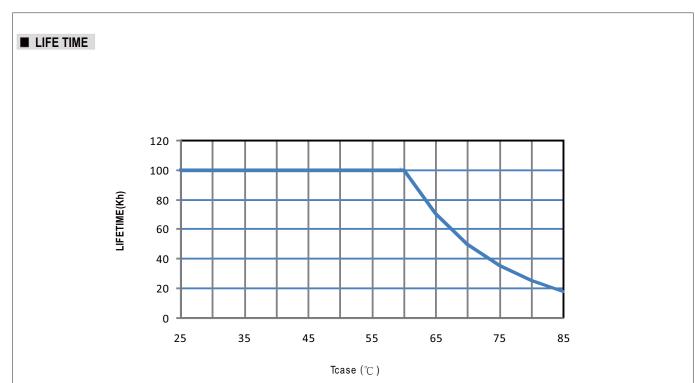
※ DALI Interface (primary side; for DA-Type)

- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

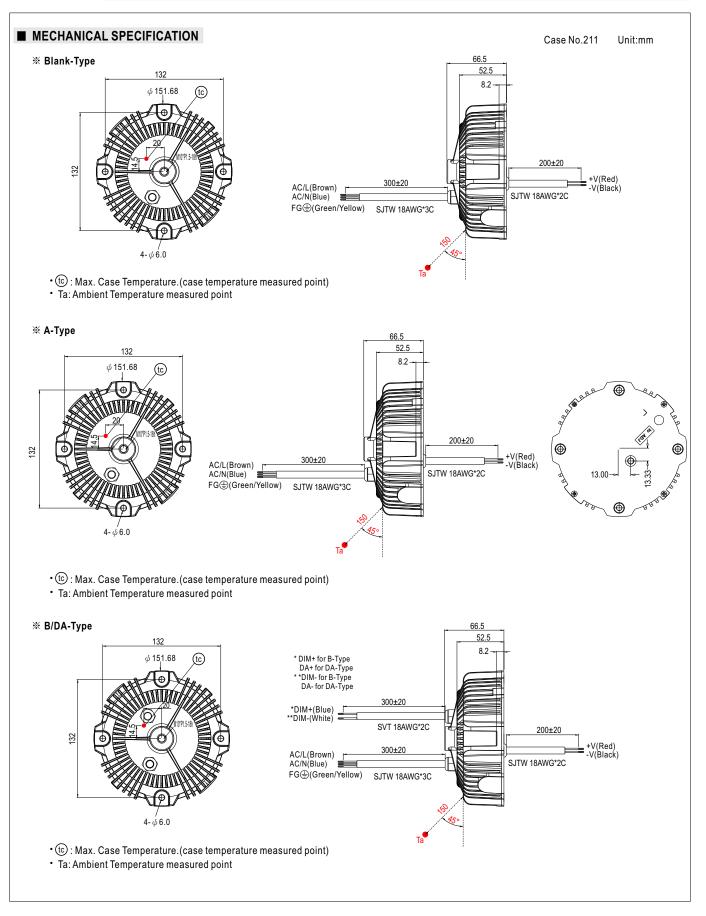






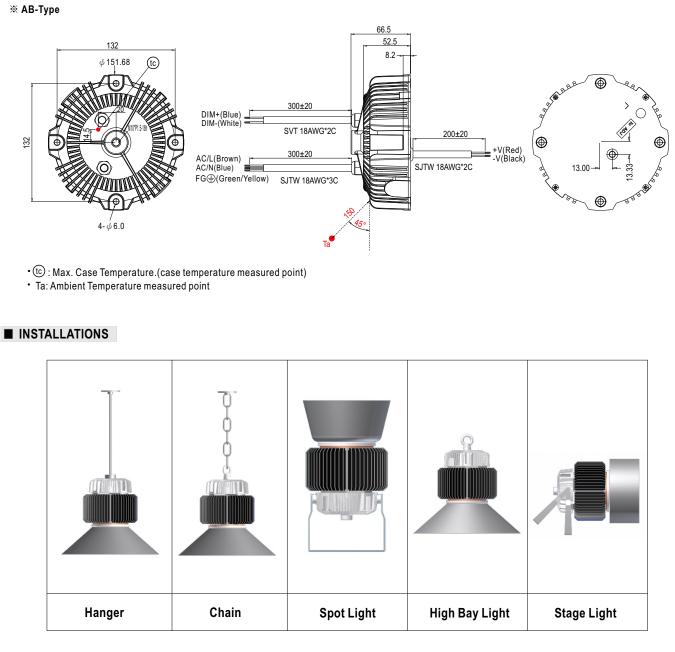








### HBG-160 series



#### Caution

- Please inspect the appearance of the driver if the package is damaged. There should not be any cracks.
- Please do not drop or bump the driver.
- All screws including the suspension screw should be paired with a spring washer and locked tight.
- The entire luminaire, including the driver, should be limited to 10Kg or less.
- The luminaire should be cautiously protected from damage due to shock throughout packaging and transportation.
- Please thoroughly follow the preceding cautionary notes to prevent the luminaire from falling, leading to injuries.

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