





#### Features

- Wide input range 90 ~ 305VAC
- Full power at 60~100% max current (Constant Power)
- · Built-in active PFC function
- · IP67 design for indoor or outdoor installations
- Dimming solutions: 3 in 1 and DALI Dimming
- Typical lifetime>50000 hours
- 5 years warranty
- MEAN WELL patented circular metal housing with class I design(Patent No.:)CN201220314551

### Description

HBGC-300 series is a 300W LED AC/DC driver featuring the constant power mode and high voltage output. HBGC-300 operates from 90~305VAC and offers models with different rated current ranging between 1300mA and 8670mA. Thanks to the high efficiency up to 94.5%, with the fanless design, the entire series is able to operate for  $-40^{\circ}C + 80^{\circ}C$  case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world. HBGC-300 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.



Туре	IP Level	Function	Note
A	IP67	output constant power adjustable via built-in potentiometer	In Stock
AB	IP67	output constant power adjustable via built-in potentiometer + 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
DA	IP67	DALI control technology.	In Stock

### Applications

- LED bay lighting
- LED stage lighting
- LED spot lighting



#### SPECIFICATION

MODEL		HBGC-300-L-	HBGC-300-M-	HBGC-300-H-		
	DEFAULT CURRENT	1400mA	2800mA	5600mA		
OUTPUT	RATED POWER	301.6W	301.6W	301.6W		
	CONSTANT CURRENT REGION	116 ~232V	58 ~ 116V	29 ~ 58V		
	FULL POWER CURRENT RANGE		2600~4330mA	5200~8670mA		
	OPEN CIRCUIT VOLTAGE (max.)	240V	120V	62V		
	CURRENT ADJ. RANGE	650~2170mA	1300~4330mA	2600~8670mA		
	CURRENT RIPPLE	5.0% max. @rated current				
	CURRENT TOLERANCE	±5%				
	SET UP TIME	500ms/230VAC, 500ms/115VAC				
	VOLTAGE RANGE Note.2	90 ~ 305VAC 127VDC ~ 431VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
		PF≥0.97 / 115VAC, PF≥0.95 / 230VAC, PF≥0.92 / 277VAC at full load				
INPUT	POWER FACTOR (Typ.)	(Please refer to "Power Factor Characteristic" section)				
	TOTAL HARMONIC DISTORTION	THD< 10% (@ load≧50% at 115VAC/230VAC ,@load≧75% at 277VAC) Please refer to "TOTAL HARMONIC DISTORTION (THD)" section				
	EFFICIENCY (Typ.)	94.5%	93.5%	92.5%		
	AC CURRENT (Typ.)	3A/115VAC 1.6A/230VAC 1.3A/277VAC				
	INRUSH CURRENT(Typ.)	COLD START 45A(twidth=1300µs measured at 50% lpeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	2 unit(circuit breaker of type B) / 4 units(circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	NO LOAD / STANDBY POWER CONSUMPTION	Standby power consumption <0.5W for AB / DA-Type Blank/A-Type please refer to Note. 5				
	SHORT CIRCUIT	Constant current limiting, recovers automa	itically after fault condition is removed			
PROTECTION		241~275V	121 ~ 145V	61 ~ 78V		
	OVER VOLTAGE	Shut down output voltage, re-power on to r	ecovery			
	OVER TEMPERATURE	Tcase>80 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C,derate power automatically by 6%/ $^{\circ}$ C max.				
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+80°C				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1, GB19510.14; IP67 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (@ load≥50%); EN61000-3-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)				
	MTBF	561.2K hrs min. Telcordia SR-332(Bellcore) ; 154.9K hrs min. MIL-HDBK-217F ( $25^{\circ}$ C)				
OTHERS	LIFETIME Note.4	4 50000 hrs min.				
	DIMENSION	φ 191.5mm *69mm				
	PACKING	2.2Kg;8pcs/19.8Kg/2.09CUFT				
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</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>This series meets the typical life expectancy of &gt;50,000 hours of operation when Tcase, particularly tc point (or TMP, per DLC), is about 70°C or less.</li> <li>To fulfill requirements of the latest ErP regulation for lighting fixture, this LED drive can only be used behind a switch without permanently connected to the mains.</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 models for operating altitude higher than 2000m(6500ft).</li> </ol>					













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