





■ Features

- · Constant Current mode output
- $^{\bullet}$ Metal housing with class ${\mathbb I}$ design
- Output adjustable via potentiometer;3 in 1 dimming (dim-to-off)
- Typical lifetime > 62000 hours
- 7 years warranty









SPECIFICATION

MODEL			HLG-600H-C5200AB
	RATED CURRENT		5200mA
OUTPUT	CONSTANT CURRENT REGION Note.4		53.5 ~112V
	OPEN CIRCUIT (Typ.)		114V
	RATED POWER		582.4W
	CURRENT ADJ. RANGE		2800 ~ 5200mA
	CURRENT TOLERANCE		5%
Ī	CURRENT RIPPLE		5% max. @rated current
	AUXILIARY POWER		Nominal 12V (Tolerance± 10%, R&N: 150mVp-p) @ 200mA
Ī	SETUP, TIME	Note.6	500ms, 80ms/ 115VAC, 230VAC
INPUT	VOLTAGE RANGE Note.5		90 ~ 305VAC 127 ~ 431VDC
			(Please refer to "STATIC CHARACTERISTIC" section)
	FREQUENCY RANGE		47 ~ 63Hz
	POWER FACTOR (Typ.)		PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.93/277VAC @ full load
			(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)
	TOTAL HARMONIC DISTORTION		THD< 20% (@ load≥50% /115VAC, 230VAC; @ load≥75%/277VAC)
	TOTAL HARMONIC	DISTURTION	(Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)
	EFFICIENCY	115VAC	92%
	(Typ.)	230,277VAC	96%
	AC CURRENT (Ty	p.)	7A / 115VAC 3.3A / 230VAC 2.9A / 277VAC
	INRUSH CURRENT(Typ.)		COLD START 70A(twidth=1000µs measured at 50% Ipeak) at 230VAC; Per NEMA 410
	MAX. No. of PSUs on 16A CIRCUIT BREAKER		1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC
	PROTECTION	SHORT CIRCUIT	
OVER VOLTAGE		116 ~ 125V	
		Shut down o/p voltage, re-power on to recover	
OVER TEMPERATURE (Typ.)		Tcase=+80 ~ +90°C at 115VAC with full load	
		Shut down o/p voltage, re-power on to recover	
	WORKING TEMP.		Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)
ENVIRONMENT	MAX. CASE TEMP.		Tcase= +80°C
	WORKING HUMIDITY		20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY		-40 \sim +85 $^{\circ}$ C, 10 \sim 95% RH non-condensing
	TEMP. COEFFICIENT		0.03%/ (0~55°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 approved, Design refer to IP65
SAFETY &	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC
EMC (Note 8)	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH
	EMC EMISSION		Design refer to EN55032(CISPR32) Class B, EN55015, EN61333-3-2 Class C (@ load≥50%)
	EMC IMMUNITY		Design refer to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)
OTHERS	MTBF		76.9K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION		280*144*48.5mm (L*W*H)
	PACKING		3.9Kg; 4pcs/16.6Kg/0.9CUFT
		NOT	lly mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.

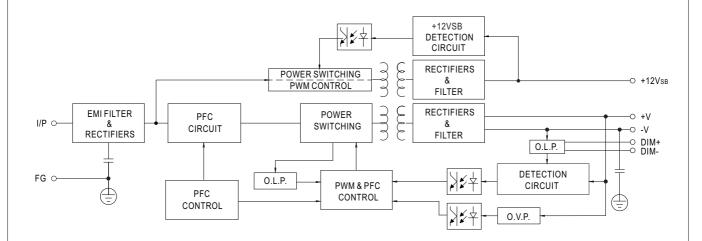
- 2. Tolerance : includes set up tolerance, line regulation and load regulation.
- 3. Please refer to "DRIVING METHODS OF LED MODULE".
- $4. \ De-rating \ may \ be \ needed \ under \ low \ input \ voltages. \ Please \ refer \ to \ STATIC \ CHARACTERISTIC \ sections \ for \ details.$
- 5. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
- 6. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, panel of the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, panel of the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, panel of the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, panel of the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, panel of the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, panel of the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, panel of the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, panel of the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, panel of the typical life expectancy of >62,000 hours of the typical life expectancy of the typical life expectancy of the typical life expectancy of the typical life expe
- 7. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 8. The driver is considered a component which will be installed into a final equipment. All the EMC tests are been executed by 2012 the unit of at 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. Figure how to perform these EMC tests, please refer to EMI testing of component power supplies. (as available on http://www.meanwell.com)
- 9. 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).
- 10. For any application note and IP water proof function installation caution, please refer our user manual before using. *******.meanwell.com/Upload/PDF/LED_EN.pdf

********.meanwell.com/serviceDisclaimer.aspx Product Liability Disclaimer For detailed information, plea



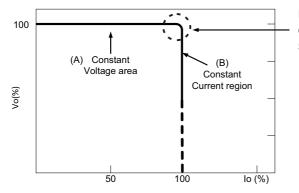
■ BLOCK DIAGRAM

fosc: 70KHz



■ DRIVING METHODS OF LED MODULE

X 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 (%)

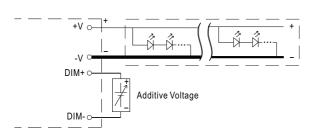
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

GND(Black) +12Vss(Red) DIM+(Blue) DIM-(White) AC/IN(Brown) AC/IN(Blue)

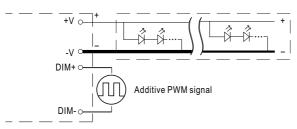
imes 3 in 1 dimming function

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



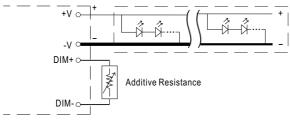
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

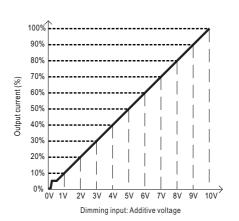


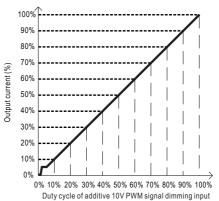
"DO NOT connect "DIM- to -V"

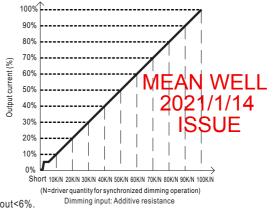
O Applying additive resistance:



"DO NOT connect "DIM- to -V"





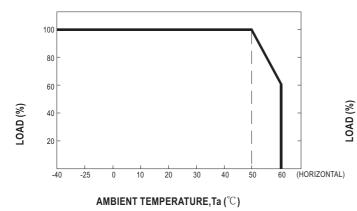


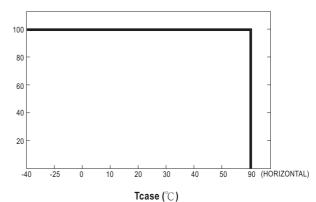
Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

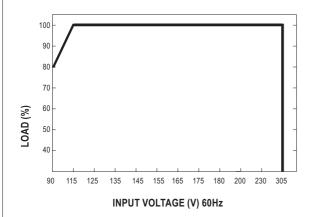


■ OUTPUT LOAD vs TEMPERATURE



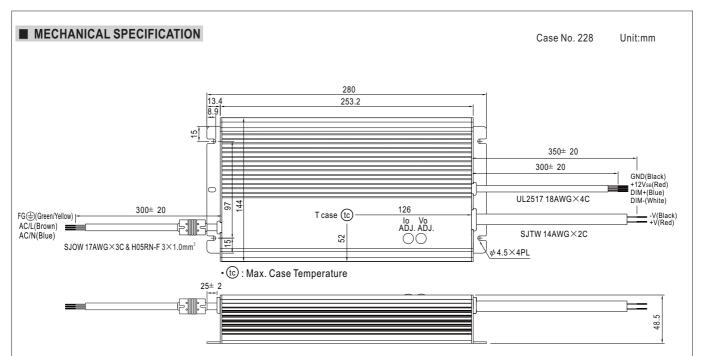


■ STATIC CHARACTERISTICS



imes De-rating is needed under low input voltage.





■ INSTALLATION MANUAL

Please refer to: http://www.meanwell.com/manual.html