



16.8 ~ 30W Power Adaptor with Charging Function

GC30B series



■ Features :

- Charger for lead-acid batteries (flooded, Gel and AGM) and li-ion batteries (lithium iron and lithium manganese)(Note.1)
- Universal AC input / Full range
- 2 pole AC Inlet IEC320-C8
- Class II power (without earth pin)
- No load power consumption <1.0W
- Constant current and voltage(CC,CV mode)
- Suitable for continue load
- For high surge current equipment
- Protections: Short circuit / Overload / Over voltage / Over temp.
- 2 colors LED indicate for charging status
- Fully enclosed plastic case
- High reliability
- Approvals: UL / CUL / TUV / EAC / CB / FCC / CE / UKCA
- 2 years warranty

User's Manual



Video



■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

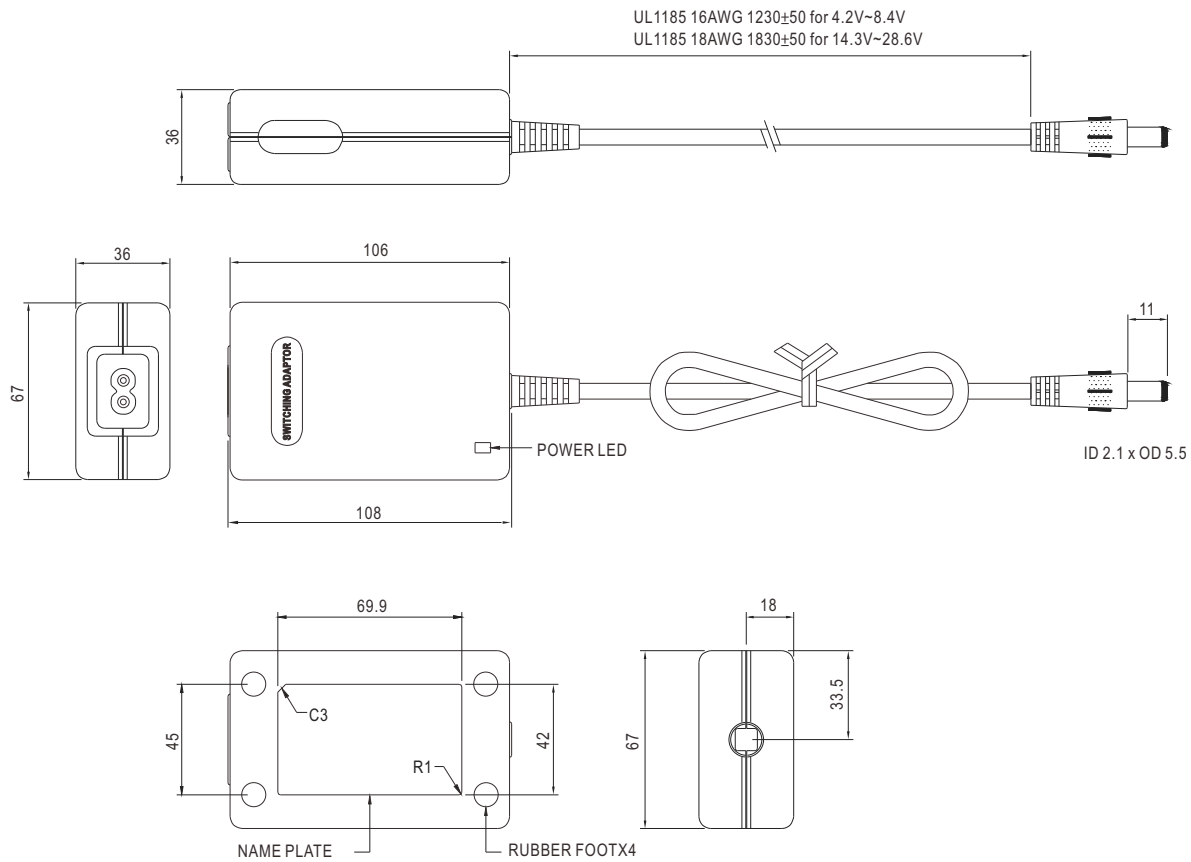


SPECIFICATION

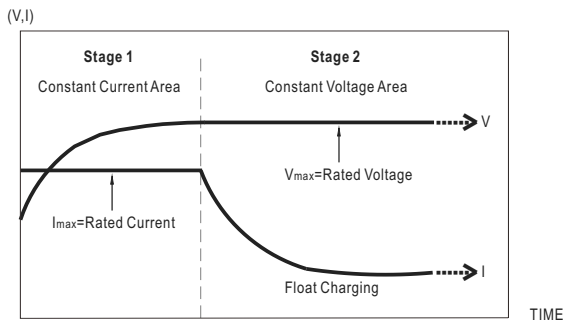
ORDER NO.		GC30B-0P1J	GC30B-1P1J	GC30B-11P1J	GC30B-2P1J	GC30B-4P1J	GC30B-5P1J	GC30B-6P1J
OUTPUT	SAFETY MODEL NO.	GC30B-0	GC30B-1	GC30B-11	GC30B-2	GC30B-4	GC30B-5	GC30B-6
	DC VOLTAGE SET AT Note.3	4.2V	5.6V	7.2V	8.4V	14.3V	16.8V	28.6V
	RATED CURRENT	4A	3.99A	3A	3A	2.09A	1.6A	1.04A
	CURRENT RANGE	0 ~ 4A	0 ~ 3.99A	0 ~ 3A	0 ~ 3A	0 ~ 2.09A	0 ~ 1.6A	0 ~ 1.04A
	RATED POWER	16.8W	22.38W	21.6W	25.2W	30W	27W	30W
	RIPPLE & NOISE (max.) Note.4	50mVp-p	50mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p	150mVp-p
	CHARGING VOLTAGE RANGE Note.5	3.6 ~ 4.4V	5 ~ 5.8V	6.5 ~ 7.5V	7.7 ~ 8.6V	13.5 ~ 14.5V	16 ~ 17V	27.1 ~ 28.8V
	LINE REGULATION Note.6	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
LED INDICATOR		Green LED ON < 100mA, Red LED ON > 250mA						
SETUP, RISE, HOLD UP TIME		200ms, 50ms, 16ms at full load						
INPUT	VOLTAGE RANGE		90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE		47 ~ 63Hz					
	EFFICIENCY (Typ.)	55%	70%	74%	76%	78%	78%	80%
	AC CURRENT		0.7A /100VAC; 0.35A/230VAC					
	INRUSH CURRENT (max.)		40A/230VAC					
	LEAKAGE CURRENT(max.)		0.25mA/240VAC					
PROTECTION	OVERLOAD		90 ~ 110% Constant current mode and over 300% pulsing mode Protection type : Constant current limiting, recovers automatically after fault condition is removed					
	OVER VOLTAGE		110 ~ 135% rated output voltage Protection type : Clamp by zener diode					
	OVER TEMPERATURE		IC1_Tj > 130℃ Protection type : Shut down o/p voltage, recovers automatically after temperature goes down					
ENVIRONMENT	WORKING TEMP.		0 ~ +50℃ (Refer to output load derating curve)					
	WORKING HUMIDITY		20% ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY		-20 ~ +85℃, 10 ~ 95% RH					
	TEMP. COEFFICIENT		±0.03% / °C (0 ~ 50℃)					
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS		UL62368-1, CSA22.2, BS EN/EN62368-1, EAC TP TC 004 approved					
	WITHSTAND VOLTAGE		I/P-O/P:3KVAC					
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH					
	EMC EMISSION		Compliance to BS EN/EN55014-1 class B, FCC part 15 Class B, EAC TP TC 020					
	EMC IMMUNITY		Compliance to BS EN/EN61000-4-2,3,4,5,6,11, light industry level, criteria A, EAC TP TC 020					
OTHERS	DIMENSION		108*67*36mm (L*W*H)					
	PACKING		309g; 54pcs / 19kg / CARTON					
CONNECTOR	PLUG		Standard type P1J: 2.1φ * 5.5φ * 11mm, tuning fork type center positive for stock ; Other type available by customer requested					
	CABLE		Standard type 18Awg UL1185 6ft and 4ft for 4.2V~8.4V output only for stock ; Other type available by customer requested					
NOTE	1.Modification for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details. 2.All parameters are specified at 230VAC input, rated load, 25℃ 70% RH ambient. 3.DC voltage: The output voltage set at point measure by plug terminal & 0% load. 4.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. 5.Output charging voltage range is measured from 0% to 100% rated load. 6.Line regulation is measured from low line to high line at rated load. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							

Mechanical Specification

Unit:mm



Charging Curve



Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese)

LED Display

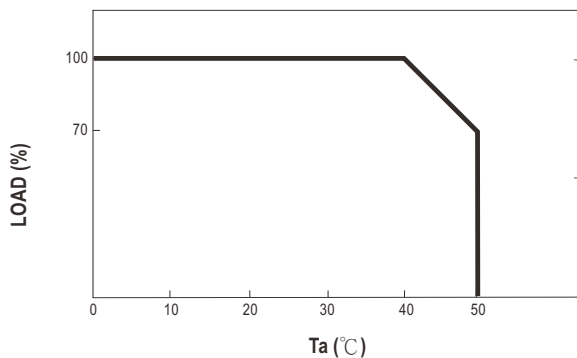
LED Status	Load Condition
Red	Charging
Green	Float Charging

Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

Derating Curve



Static Characteristics

