



16.8 ~ 30W AC-DC Power Adaptor with Charger Function

GC30U 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
- With USA type 6FT power cord(2pin)
- 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 / EAC / CB / FCC
- 2 years warranty

User's Manual



Video



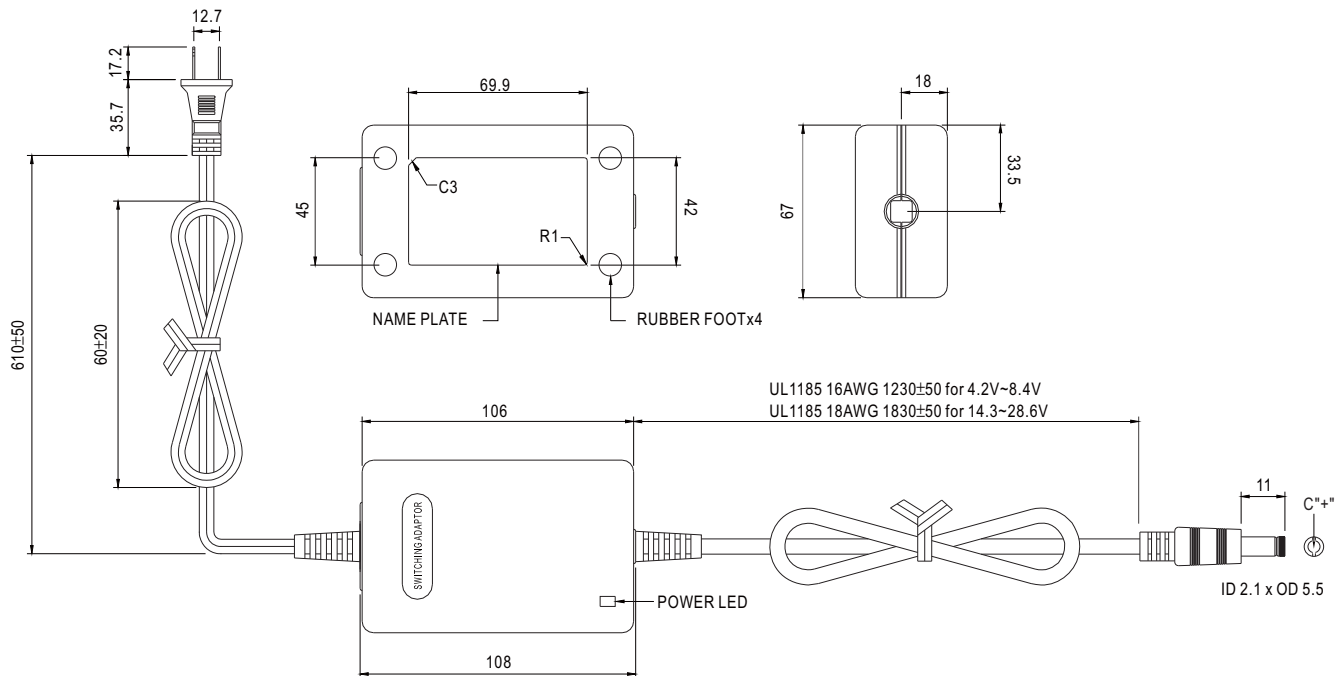
SPECIFICATION



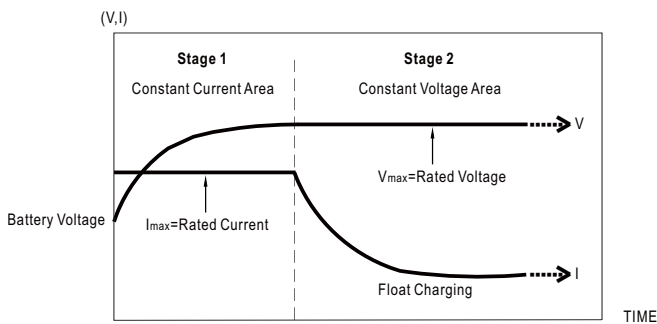
ORDER NO.		GC30U-0P1J	GC30U-1P1J	GC30U-11P1J	GC30U-2P1J	GC30U-4P1J	GC30U-5P1J	GC30U-6P1J	
OUTPUT	SAFETY MODEL NO.	GC30U-0	GC30U-1	GC30U-11	GC30U-2	GC30U-4	GC30U-5	GC30U-6	
	DC VOLTAGE SET AT Note.3	4.2V	5.6V	7.2V	8.4V	14.3V	16.8V	28.6V	
	RATED CURRENT	4A	3.99A	3A	3A	2.09A	1.6A	1.04A	
	CURRENT RANGE	0 ~ 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 "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, 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 FCC part 15 Class B, EAC TP TC 020						
	EMC IMMUNITY		Compliance to EAC TP TC 020						
OTHERS	DIMENSION		108*67*36mm (L*W*H)						
	PACKING		405g; 36pcs / 16.5kg / 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 115VAC 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

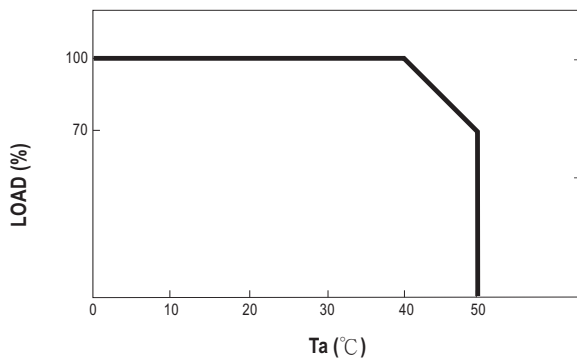
LED Status	Load Condition
Red	Charging
Green	Float Charging

Plug Assignment

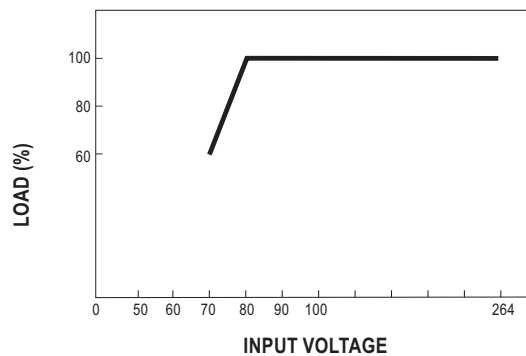
Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

Derating Curve



Static Characteristics



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

MEAN WELL:

[GC30U-1P1J](#) [GC30U-4P1J](#) [GC30U-2P1J](#) [GC30U-6P1J](#) [GC30U-11P1J](#) [GC30U-0P1J](#) [GC30U-5P1J](#)