



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

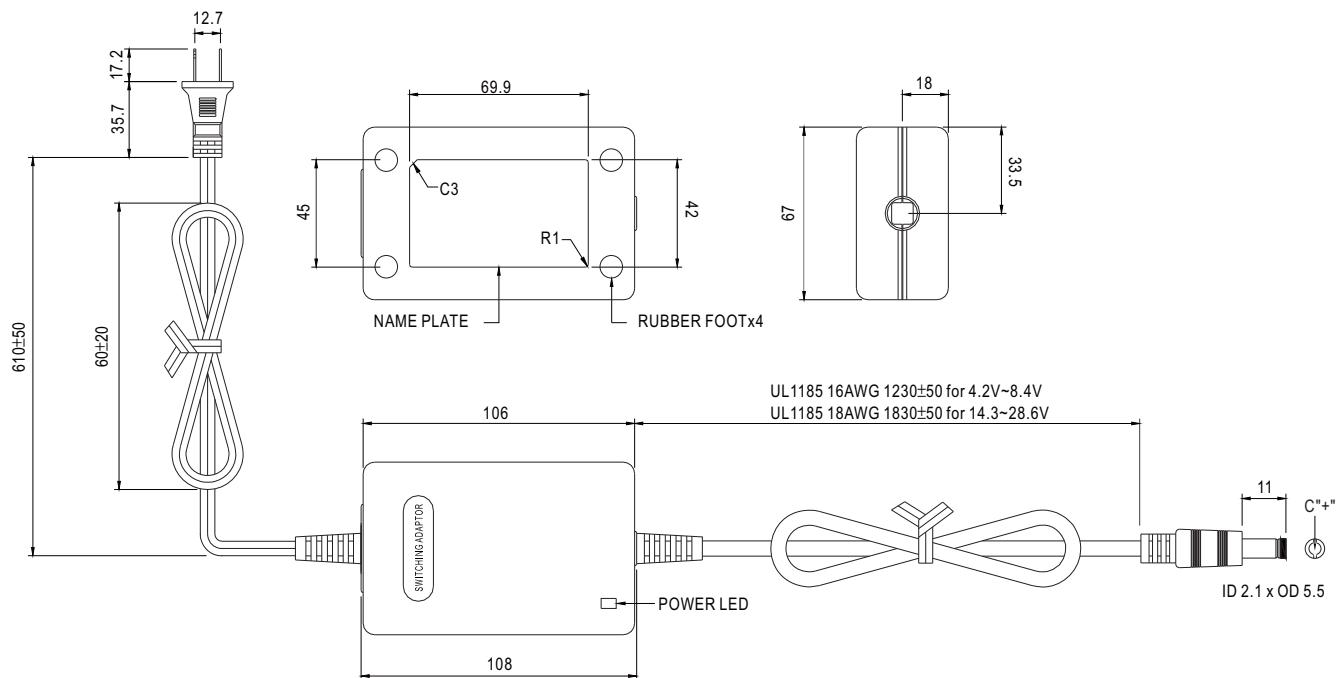


SPECIFICATION

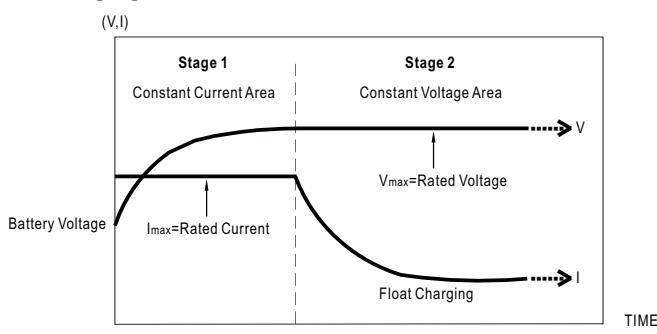
ORDER NO.	GC30U-0P1J	GC30U-1P1J	GC30U-11P1J	GC30U-2P1J	GC30U-4P1J	GC30U-5P1J	GC30U-6P1J
OUTPUT	SAFETY MODEL NO.	GC30U-0	GC30U-1	GC30U-11	GC30U-2	GC30U-4	GC30U-5
	DC VOLTAGE SET AT Note.3	4.2V	5.6V	7.2V	8.4V	14.3V	16.8V
	RATED CURRENT	4A	3.99A	3A	3A	2.09A	1.6A
	CURRENT RANGE	0 ~ 4A	0 ~ 3.99A	0 ~ 3A	0 ~ 3A	0 ~ 2.09A	0 ~ 1.6A
	RATED POWER	16.8W	22.38W	21.6W	25.2W	30W	27W
	RIPPLE & NOISE (max.) Note.4	50mVp-p	50mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-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
	LINE REGULATION Note.6	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
INPUT	LED INDICATOR	Green LED ON < 100mA, Red LED ON > 250mA					
	SETUP, RISE, HOLD UP TIME	200ms, 50ms, 16ms at full load					
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	55%	70%	74%	76%	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°C Protection type : Shut down o/p voltage, recovers automatically after temperature goes down					
ENVIRONMENT	WORKING TEMP.	0 ~ +50°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20% ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)					
	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°C / 70% RH					
	EMC EMISSION	Compliance to FCC part 15 Class B, EAC TP TC 020					
OTHERS	EMC IMMUNITY	Compliance to EAC TP TC 020					
	DIMENSION	108*67*36mm (L*W*H)					
CONNECTOR	PACKING	405g; 36pcs / 16.5kg / CARTON					
	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°C 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

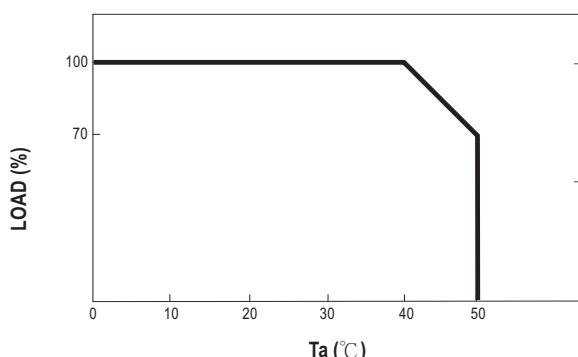
LED Status	Load Condition
Red	Charging
Green	Float Charging

■ Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

■ Derating Curve



■ Static Characteristics

