



# 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



### ■ GTIN CODE

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

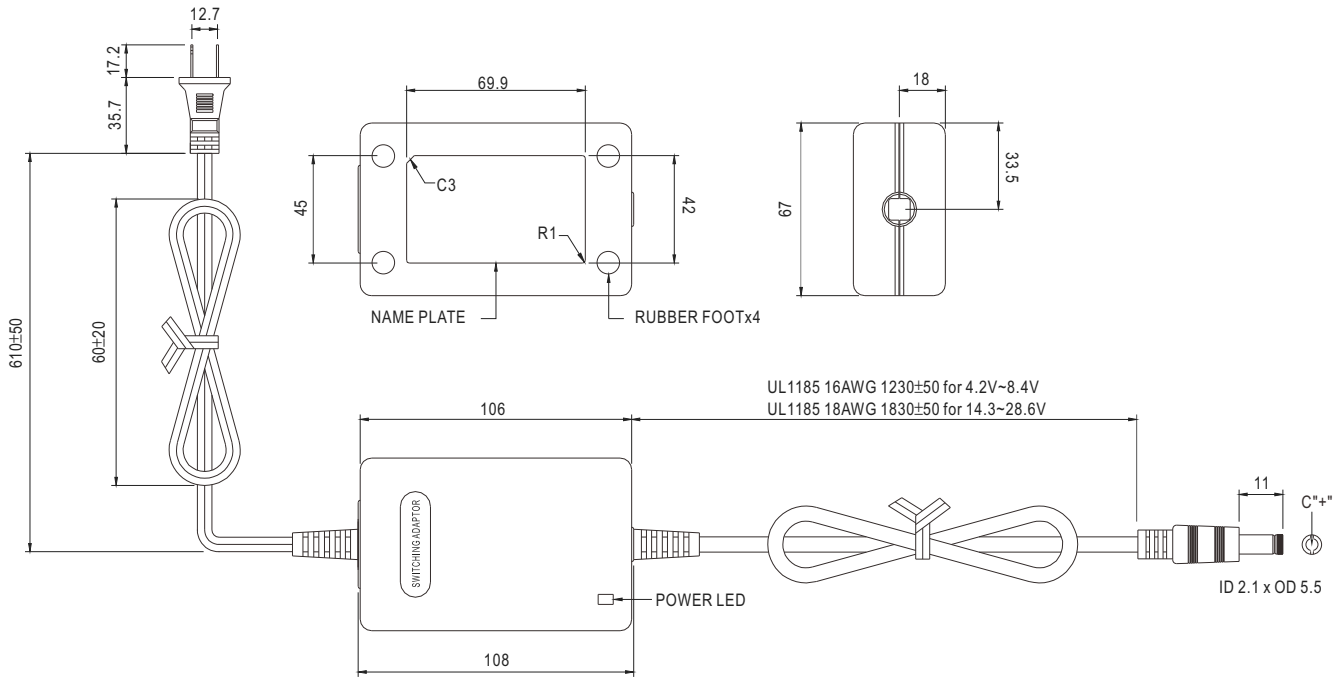


### SPECIFICATION

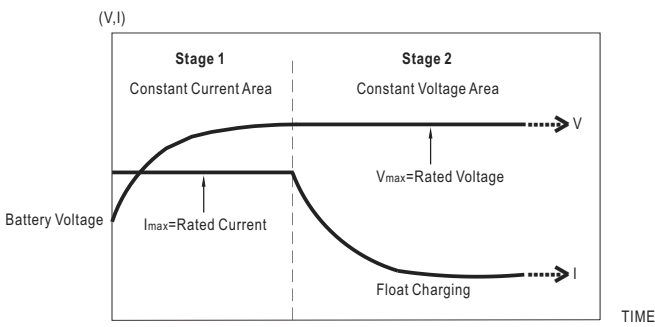
ORDER NO.	GC30U-0P1J	GC30U-1P1J	GC30U-11P1J	GC30U-2P1J	GC30U-4P1J	GC30U-5P1J	GC30U-6P1J	
OUTPUT	SAFETY MODEL NO.	GC30U-0	GC30U-1	GC30U-11	GC30U-2	GC30U-4	GC30U-5	GC30U-6
	DC VOLTAGE SET AT <small>Note.3</small>	4.2V	5.6V	7.2V	8.4V	14.3V	16.8V	28.6V
	RATED CURRENT	4A	3.99A	3A	3A	2.09A	1.6A	1.04A
	CURRENT 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.) <small>Note.4</small>	50mVp-p	50mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p	150mVp-p
	CHARGING VOLTAGE RANGE <small>Note.5</small>	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 <small>Note.6</small>	±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°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						
	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	<p>1.Modification for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details.</p> <p>2.All parameters are specified at 115VAC input, rated load, 25°C 70% RH ambient.</p> <p>3.DC voltage: The output voltage set at point measure by plug terminal &amp; 0% load.</p> <p>4.Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 47uf capacitor.</p> <p>5.Output charging voltage range is measured from 0% to 100% rated load.</p> <p>6.Line regulation is measured from low line to high line at rated load.</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>							

**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**

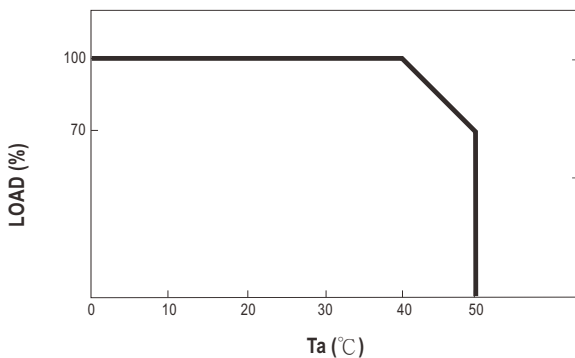
LED Status	Load Condition
Red	Charging
Green	Float Charging

**Plug Assignment**

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

**Derating Curve**



**Static Characteristics**

