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30W Battery Charger Power supply > GC30E



■ 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 EURO type 6 FT 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 loading status
- Fully enclosed plastic case
- High reliability
- Approvals: TUV / EAC / CB / FCC / CE
- 2 years warranty



SPECIFICATION

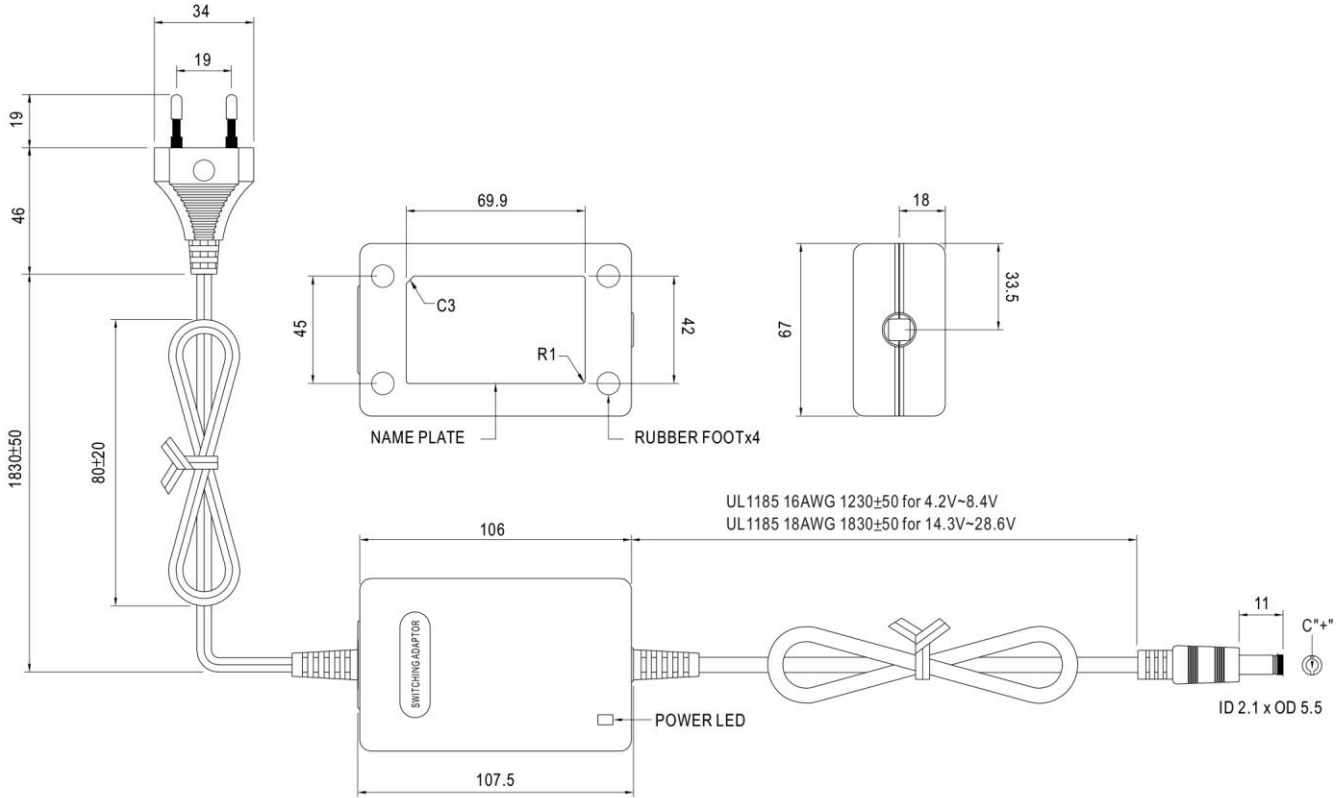
ORDER NO.	GC30E-0P1J	GC30E-1P1J	GC30E-11P1J	GC30E-2P1J	GC30E-4P1J	GC30E-5P1J	GC30E-6P1J	
OUTPUT	SAFETY MODEL NO.	GC30E-0	GC30E-1	GC30E-11	GC30E-2	GC30E-4	GC30E-5	GC30E-6
	DC VOLTAGE SET AT Note.3	4.2V	5.6V	7.2V	8.4V	14.3V	16.8V	28.6V
	RATED CURRENT	4A	3.99A	3A	3A	2.09A	1.6A	1.04A
	CURRENT RANGE	0 ~ 4A	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°C Protection type : Shut down o/p voltage, recovers automatically after temperature goes down						
ENVIRONMENT	WORKING TEMP.	0 ~ +50°C (Refer to output load 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	TUV EN62368-1, 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 EN55014-1 class B, FCC part 15 Class B, EAC TP TC 020						
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, light industry level, criteria A, 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						
NOTE	CABLE	Standard type 18Awg UL1185 6ft and 4ft for 4.2V~8.4V output only for stock ; Other type available by customer requested						
		1.Modification for charger specification may be required for different battery specification. 2.All parameters are specified at 230VAC 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.						



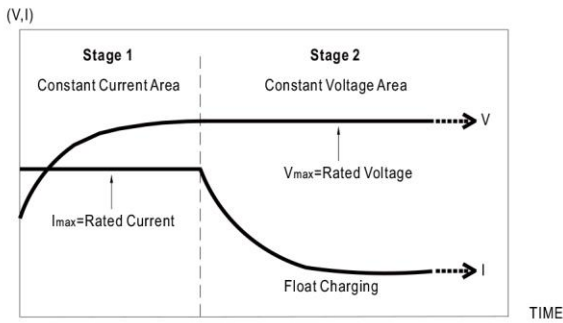
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Mechanical Specification

Unit:mm



Charging Curve



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

LED Display

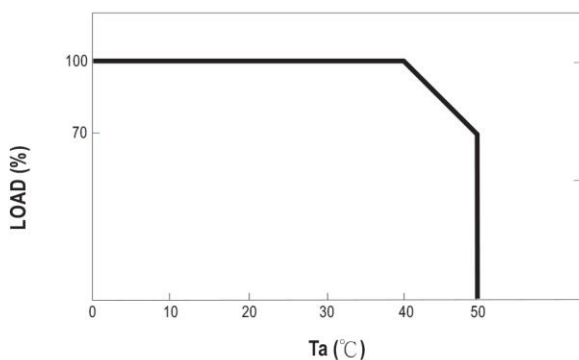
LED Status	Load Condition
Red	Charging
Green	Float Charging

Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

Derating Curve



Static Characteristics

