330W Single Output Battery Charger

GC330 series



■ Features :

- Charger for lead-acid batteries (flooded,Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese) (Note.1)
- 2 stage charging characteristic
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- 3 pole AC inlet IEC320-C14
- Class Ⅰ power (with earth pin)
- Protections: Short circuit / Over voltage / Over temperature
- Fanless design, cooling by free air convection
- Fully enclosed plastic case
- No load power consumption<1W
- 2 color LED indicator for charging status
- 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

BS EN/EN62368-1 UL62368-1 TPTC004 IEC62368-1

SPECIFICATION

ORDER NO.		GC330A36-C4P	GC330A48-C4P
OUTPUT	SAFETY MODEL NO.	GC330A36	GC330A48
	DC VOLTAGE (Typ.)	40.8V	54.4V
	RECOMMENDED BATTERY CAPACITY Note.3	20 ~ 65Ah	20 ~ 65Ah
	PEAK CURRENT(Typ.) Note 5	8A	6A
	CONTINUOUS OUTPUT CURRENT (Typ.) Note 6	6.4A	4.8A
	OUTPUT POWER RANGE	261.1 ~ 326.4W	261.1 ~ 326.4W
	LED INDICATOR	Charging(CC) : RED Floating charging(CV) : GREEN	
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	PF>0.95 / 230VAC PF>0.98 / 115VAC at full load	
	EFFICIENCY (Typ.)	93.5%	93.5%
	AC CURRENT (Typ.)	4A / 115VAC 2A / 230VAC	
	INRUSH CURRENT (max.)	120A / 230VAC	
	LEAKAGE CURRENT(max.)	1.5mA / 240VAC	
PROTECTION	SHORT CIRCUIT	Protection type : Hiccup mode, recovers automatically after fault condition is removed	
	OVER VOLTAGE	105 ~ 135% rated output voltage	
		Protection type : Shut down o/p voltage, re-power on to recover	
	OVER TEMPERATURE	100℃ ±10℃(RTH2)	
		Protection type : Shut down o/p voltage, re-power on to recover	
ENVIRONMENT	WORKING TEMP.	-30 ~ +60℃ (Refer to "Derating Curve")	
	WORKING HUMIDITY	20% ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03% / ℃ (0~40℃)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC (Note. 7)	SAFETY STANDARDS	UL62368-1, TUV 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/EN55032 class B, BS EN/EN61000-3-2,3, FCC PART 15 / CISPR22 class B, CAN ICES-3(B)-NMB-(B), EAC TP TC 020	
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, light industry level, EAC TP TC 020	
OTHERS	MTBF	1624.8K hrs min. Telcordia SR-332 (Bellcore) ; 209.5K hrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	220*95*46mm (L*W*H)	
	PACKING	1.25Kg; 12pcs/16Kg/1.09CUFT	
CONNECTOR	PLUG	See page 2	
	CABLE	See page 2	

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 NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.
3. This is MeanWell's suggested range, please consult your battery manufacturer for their suggestions about maximum charging current limitation.
4. Derating may be needed under low input voltage. Please check the derating curve for more details.
5. Test condition is at 25℃ the charging current vary with the ambient and components temperature. The lower temperature, the higher charging current.
6. Maximum charging current will be in the range of 85~110% rated output current.
7. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that whole system complies with the EMC directives.(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).

※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

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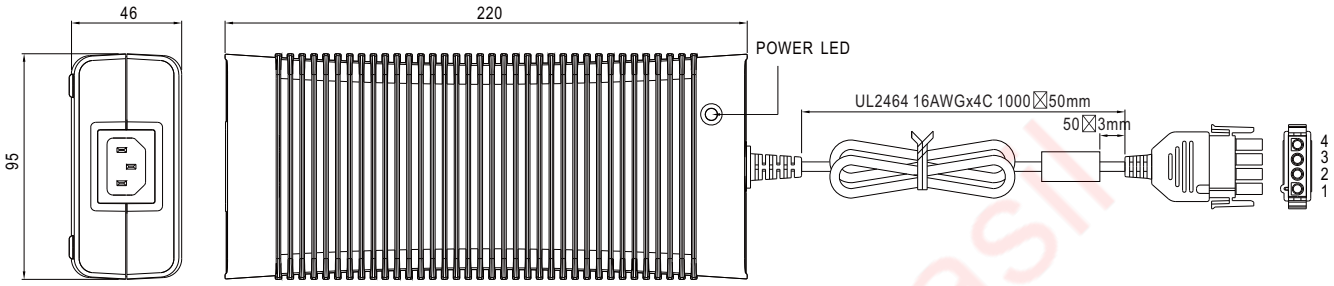
■ Mechanical Specification

Case No. GS280A Unit:mm



■ Plug Assignment

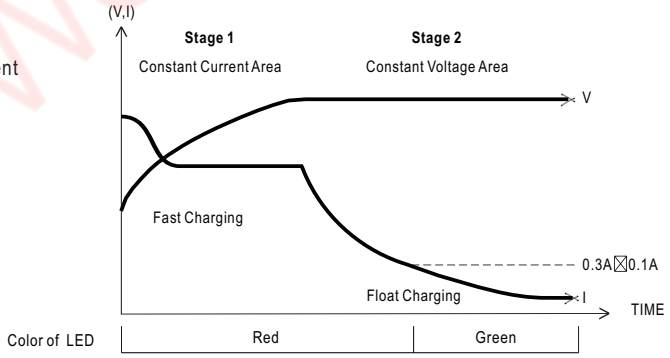
Standard male plug(power supply side): AMP 1-480702-0 equivalent

C4P		
4 3 2 1	PIN NO.	OUTPUT
	1,2	+V
	3,4	-V

-V connected to AC FG

Female plug(customer side, not provide with the power supply):
AMP 1-480703-0 equivalent

■ Charging Curve



Model	Suggested Battery capacity
GC330A36	20-65Ah
GC330A48	20-65Ah

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

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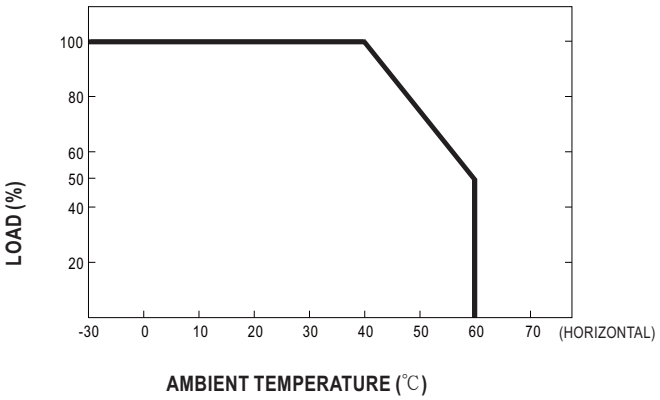
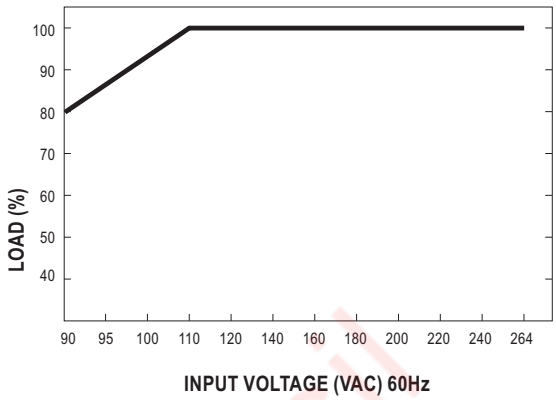
■ Derating Curve



■ Static Characteristics



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