



## MEAN WELL GC30B 16.8 – 30W Power Adaptor with Charging Function User Manual

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GC30B 16.8 – 30W Power Adaptor with Charging Function  
User Manual



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## 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
- 2 pole AC Inlet IEC320-C8
- Class II power (without earth pin)
- No load power consumption <1.0W
- Constant current and voltage(CC,CV mode)
- Suitable for continued load
- For high surge current equipment
- Protections: Short circuit / Overload / Over voltage / Over temp.
- 2 colors of LED indicate for charging status
- Fully enclosed plastic case
- High reliability
- Approvals: UL / CUL / TUV / EAC / CB / FCC / CE / UKCA
- 2 years warranty

### User's Manual



### Video



[https://www.youtube.com/watch?v=ouJ1SBaOALM&list=PLvUyt\\_OJELVrHollRgvHF2NQ-j39-NH-J&index=4](https://www.youtube.com/watch?v=ouJ1SBaOALM&list=PLvUyt_OJELVrHollRgvHF2NQ-j39-NH-J&index=4)

[https://www.meanwell.com/Upload/PDF/Adaptor\\_EN.pdf](https://www.meanwell.com/Upload/PDF/Adaptor_EN.pdf)

## GTIN CODE

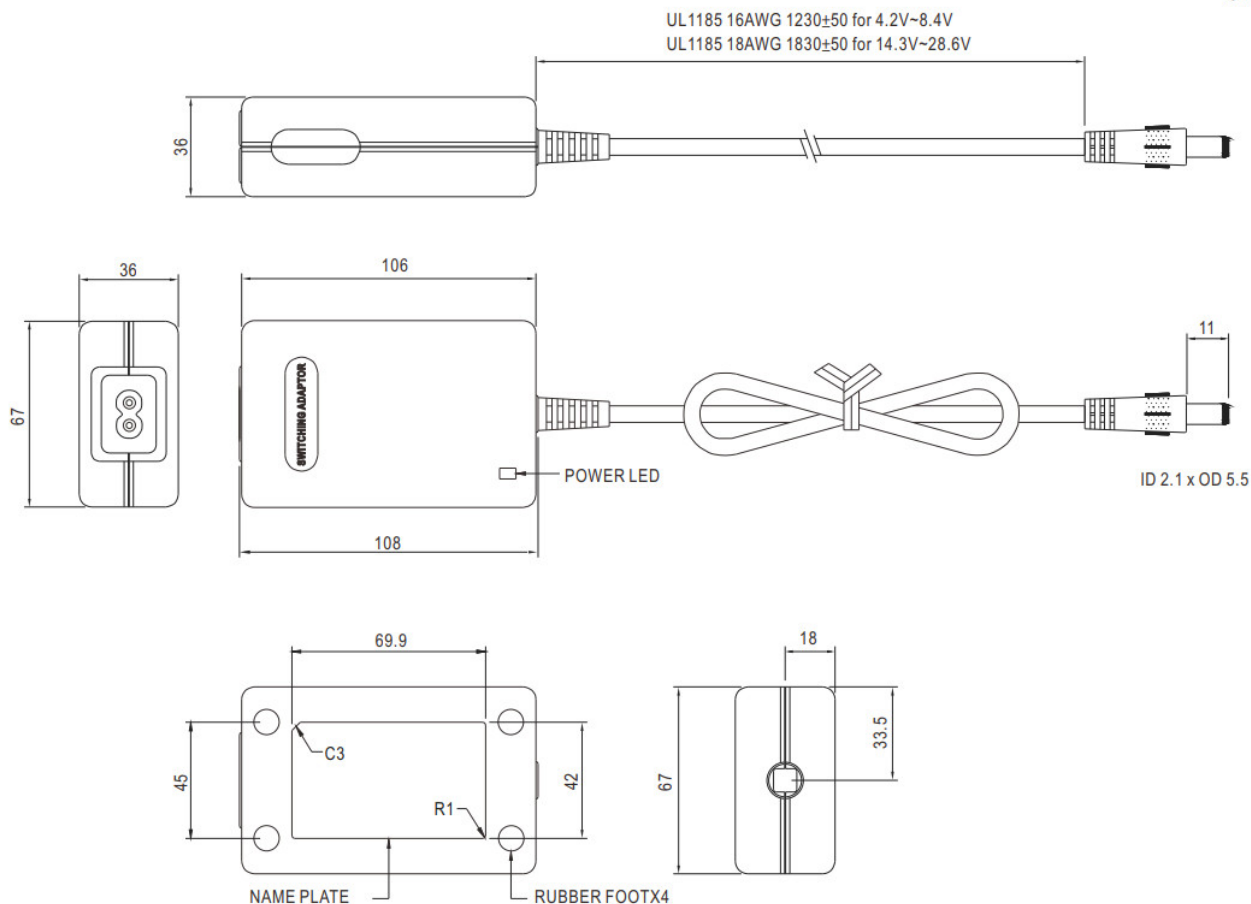
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>.

ORDER NO.		GC30B-OP1J	GC30B-1 P1 J	GC30B-1 1P1J	GC30B-2 P1J	GC30B-4 P1J	GC30B-5 P1J	GC30B-6 P1J
OUTPUT	SAFETY MODE L NO.	GC30B-0	GC30B-1	GC30B-1 1	GC308-2	GC3013-4	GC30B-5	GC30B-6
	DC VOLTAGE S ET AT Note.3	4.2V	5.6V	7.2V	8.4V	14.3V	16.8V	28.6V
	RATED CURRE NT	4A	3.99A	3A	3A	2.09A	1.6A	1.04A
	CURRENT RAN GE	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 & NOIS E (max.) Note.4	50mVp-p	50mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p	150mVp-p
	CHARGING VOL TAGE RANGE N ote.5	3.6 – 4.4 V	5 – 5.8V	6.5 – 7.5 V	7.7 – 8.6 V	13.5 -14. 5V	16 -17V	27.1 – 28. 8V
	LINE REGULATI ON 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, H OLD UP TIME	200ms, 50ms, 16ms at full load						
INPUT	VOLTAGE RANG E	90 – 264VAC 127 – 370VDC						
	FREQUENCY R ANGE	47 – 63Hz						
	EFFICIENCY (Ty p.)	55% 170%		174%	176%	78%	178%	80%
	AC CURRENT	0.7A /100VAC; 0.35A/230VAC						
	INRUSH CURRENT (max .)	40A/230VAC						
	LEAKAGE CUR RENT(max.)	0.25mA/240VAC						
PROT ECTION	OVERLOAD	90 -110% Constant current mode and over 300% pulsing mode						
		Protection type: Constant current limiting, recovers automatically after fault conditio n is removed						
	OVERVOLTAGE	110 -135% rated output voltage						
		Protection type: Clamp by zener diode						
	OVER TEMPER ATURE	IC1_Tj > 130t						
		Protection type: Shut down o/p voltage, recovers automatically after temperature g oes down						

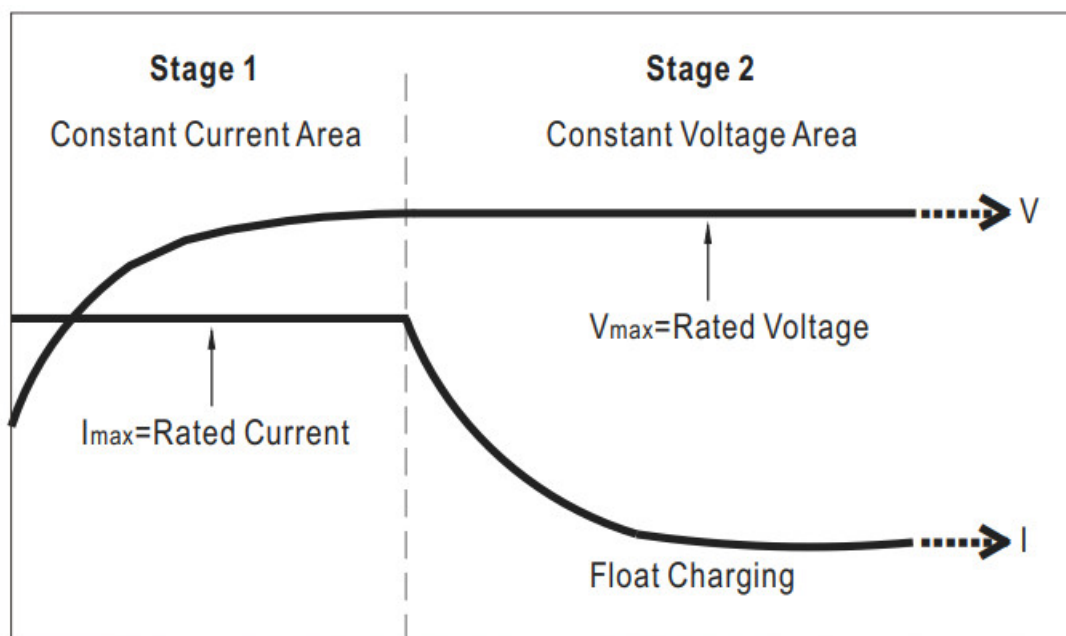
ENVIRONMENT	WORKING TEM P.	0 – +50t (Refer to output load derating curve)
	WORKING HUM IDITY	20% – 90% RH non-condensing
	STORAGE TEM P., HUMIDITY	-20 – +85t , 10 – 95% RH
	TEMP. COEFFIC IENT	±0.03% / t. (0 – 50t)
	VIBRATION	10 – 500Hz, 2G 10min./1 cycle, the period for 60min. each along X, Y, and Z axes
SAFETY & EMC	SAFETY STAND ARDS	UL62368.1, CSA22.2, BS EN/EN62368.1, EAC TP TC 004 approved
	WITHSTAND VO LTAGE	I/P-0/P:3KVAC
	ISOLATION RES ISTANCE	I/P-0/P:100M Ohms! 500VDC / 25t/ 70% RH
	EMC EMISSION	Compliance to BS EN/EN55014-1 class B, FCC part 15 Class B, EAC TP TC 020
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,11, light industry level, criteria A, EAC TP TC 020
OTHERS	DIMENSION	108*67*36mm (L'APH)
	PACKING	309g; 54pcs / 19kg / CARTON
CONNECTOR	PLUG	Standard type P1J: 2.10 ' 5.5(1) ' 11mm, tuning fork type center positive for stock; another type available by customer requested
	CABLE	Standard type 18Awg UL1185 6ft and 4ft for 4.2V-8.4V output only for stock; another type available by customer requested
NOTE	<p>1. Modification for charger specification may be required for different battery specification. Please contact the battery vendor and MEAN WELL for details.</p> <p>2. All parameters are specified at 230VAC input, rated load, 25t 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.contervibeDisclaimer.aspx">https://www.meanwell.contervibeDisclaimer.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

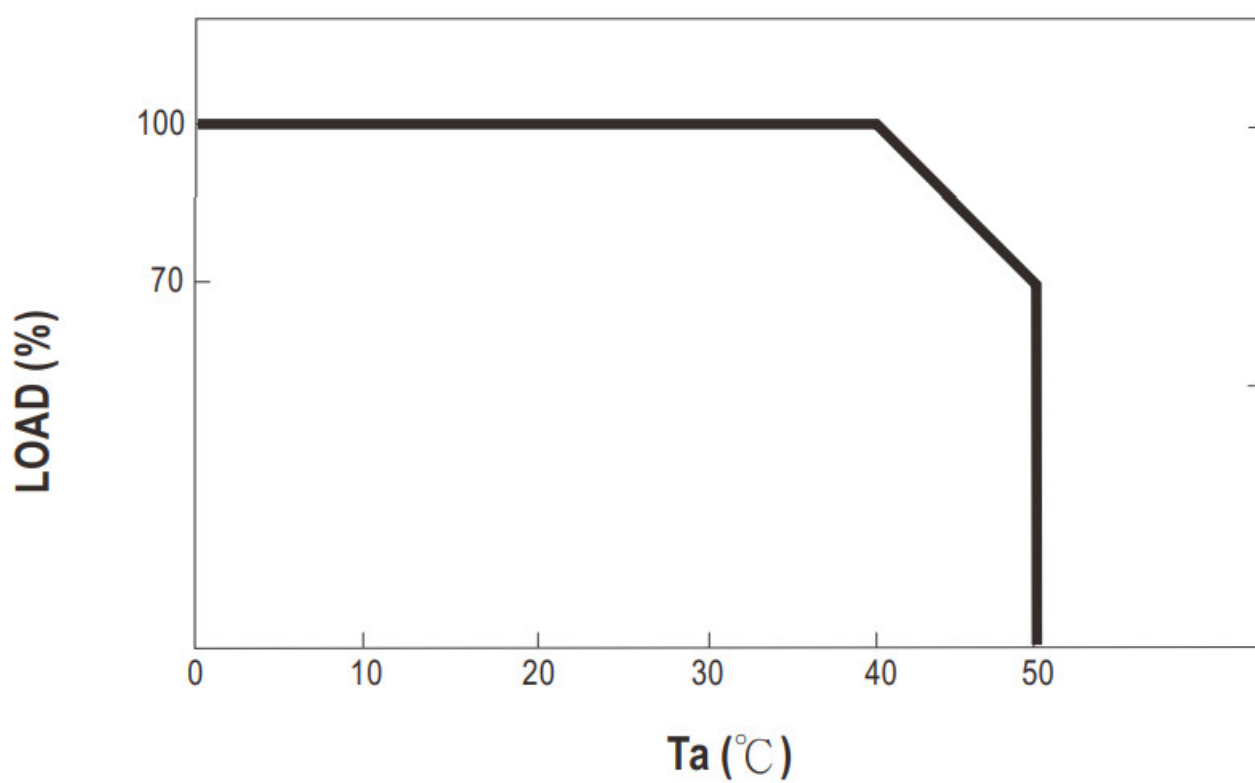
LED Status	Load Condition
Red	Charging
Green	Float Charging

### Plug Assignment

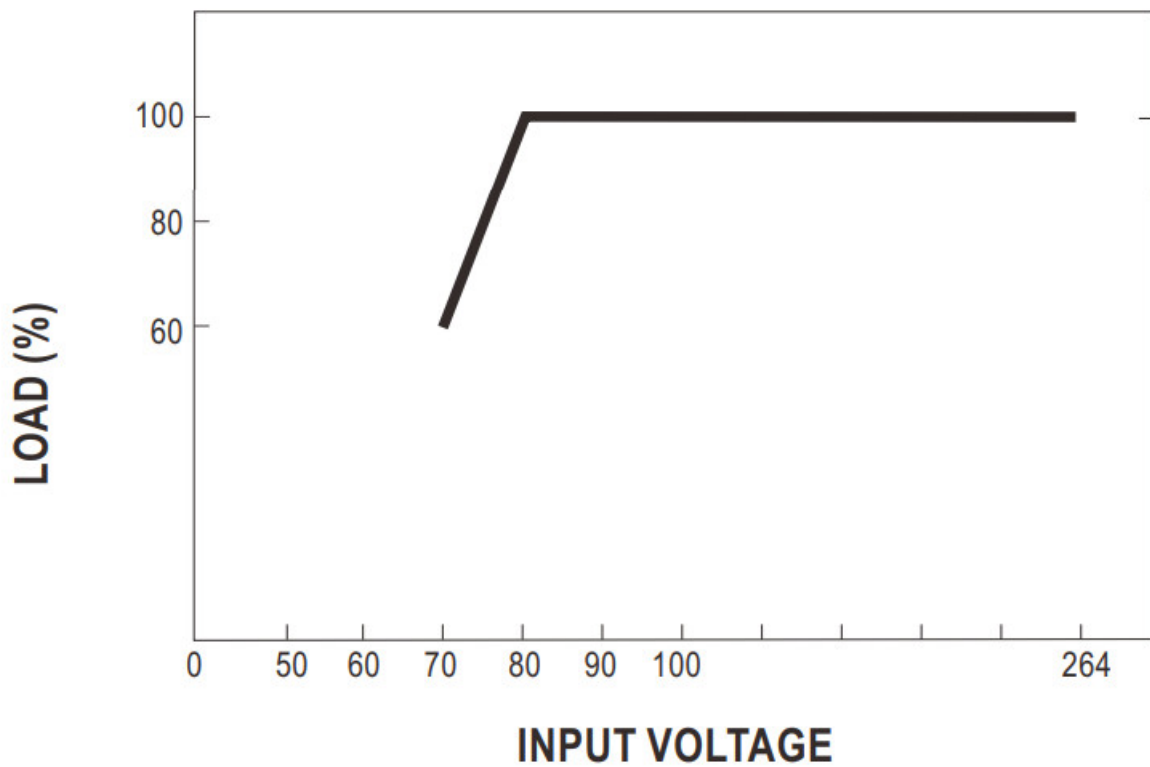
Standard plug: P1J (option)

P1J	
P/N	CENTER
OUTPUT	+


### Derating Curve



### Static Characteristics



## Documents / Resources

	<p><a href="#">MEAN WELL GC30B 16.8 - 30W Power Adaptor with Charging Function</a> [pdf] User Manual GC30B, 16.8 30W Power Adaptor with Charging Function, 16.8 30W Power Adaptor, Power Adaptor, GC30B, Adaptor</p>
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## References

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[Product Liability Disclaimer-MEAN WELL Switching Power Supply Manufacturer](#)