




MEAN WELL GC30B Series 16.8 30W Power Adaptor with Charging Function Owner's 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 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/TUV/EAC/CB/FCC/CE/UKCA
- 2 years warranty

User's Manual



Video



GTIN CODE

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

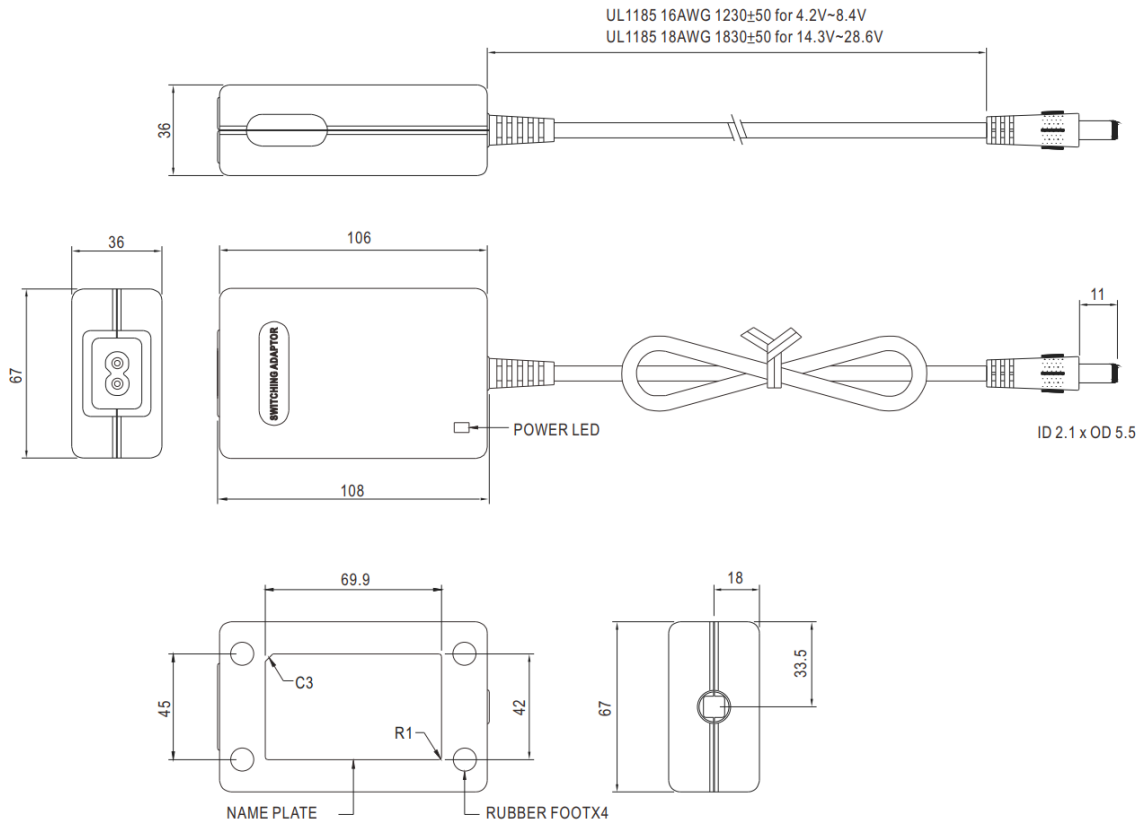
ORDER NO.		GC30 B- OP 1J	GC 30B- 1P 1J	GC3013- 11P 1J	GC 30B- 2P 1J	GC30 B4 P 1J	GC 30B- 5P 1J	GC 30 B- 6P1J
OUTPUT	SAFETY MODEL NO.	GC30B-0	GC30B-1	GC30B-1 1	GC30B-2	GC30B-4	GC30B-5	GC30B-6
	DC VOLTAGE SET AT Note.3	4.2V	5.6V	7.2V	8.4V	14.3V	16.8V	28.6V
	RATED CURRENT	4A	3.99A	3A	3A	2.09A	1.6A	1.04A
	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.) Note1'	50mVp-p	50mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p	150mVp-p
	CHARGING VOLTAGE RANGE HMS	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 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%	170%	174%	i 76%	178%	178%	180%
	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 itcycle, period for 60min. each along X, Y. Z axes
SAFETY & EMC	SAFETY STANDARDS	UL62368-1, CSA22.2, BS EN/EN62368-1, EAC TP TC 004 approved
	WITHSTAND VOLTAGE	I/P-0/P:3KVAC
	ISOLATION RESISTANCE	I/P-0/P:100M Ohms / 500VDC 125 C/ 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/EN610004-2,3,4,5,6,11, light industry level, criteria A, EAC TP TC 020
OTHERS	DIMENSION	108'67'36mm (12WH)
	PACKING	309g; 54pcs / 19kg / CARTON
CONNECTOR	PLUG	Standard type P1J: 2.10 ' 5.50 'l 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

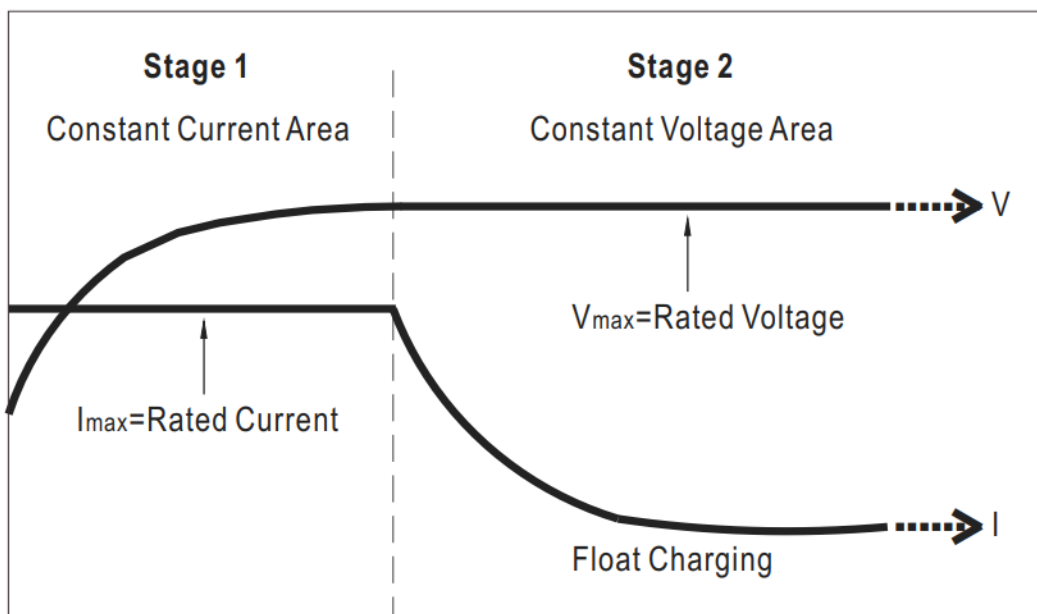
NOTE

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 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 0.1 μ F & 47 μ F 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.iE Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>

Mechanical Specification



Charging Curve



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

LED Display

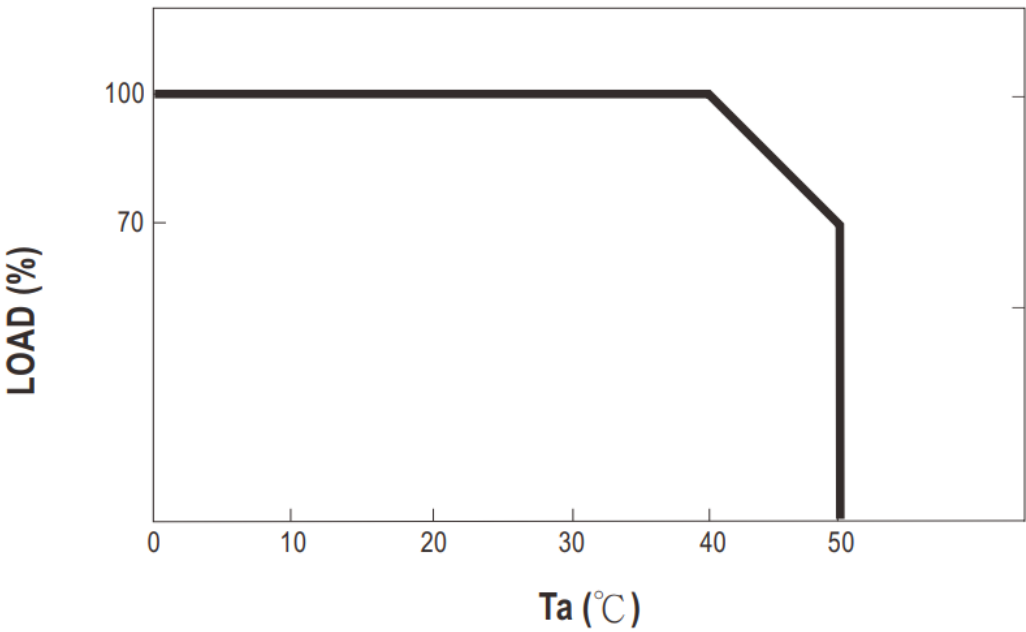
LED Status	Load Condition
Red	Charging
Green	Float Charging

Plug Assignment

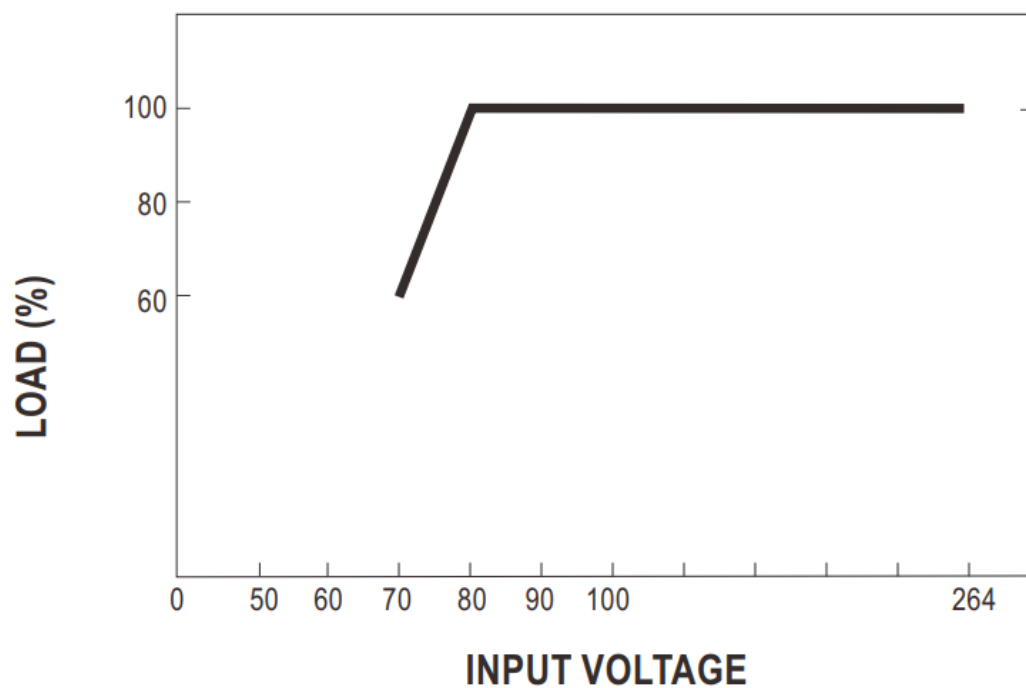
Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+


Derating Curve



Static Characteristics



Documents / Resources

	<p>MEAN WELL GC30B Series 16.8 30W Power Adaptor with Charging Function [pdf] Owner's Manual</p> <p>GC30B Series 16.8 30W Power Adaptor with Charging Function, GC30B Series, 16.8 30W Power Adaptor with Charging Function, Adaptor with Charging Function, Charging Function</p>
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