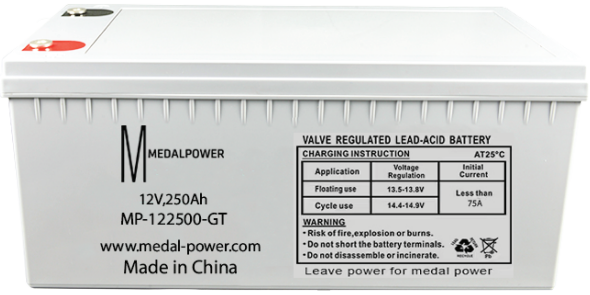
MEDALPOWER

GEL Deep Cycle Battery
12V , 250Ah

MP-122500-GT



Features:

>> Electric tools
>> Vehicle in place of walking
>> Lawn mowers
>> Golf trolleys and golf cart
>> Portable apparatus, lights and instruments;
>> Electric toys
>> Illumination light
>> Fire alarms
>> Portable power
>> Wheelchairs
>> Medical equipments.

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Technical Specifications

Model	MP-122500-GT	
Nominal Voltage	12V	
Nominal Capacity(10HR)	250AH	
Dimension	Length	522 ±3mm (20.55 inches)
	Width	240 ±2mm (9.44 inches)
	Container Height	219 ±2mm (8.62 inches)
	Total Height (with Terminal)	244± 2mm (9.60inches)
Approx. Weight	Approx 62.2 Kg (137.3lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	258.8AH/12.9A	(20hr ,1.80V/cell,25℃/77℉)
	250.0 AH/25.0A	(10hr,1.80V/cell,25℃/77℉)
	218.7 AH/43.7A	(5hr,1.75V/cell,25℃/77℉)
	198.7 AH/66.2A	(3hr,1.75V/cell,25℃/77℉)
	161.5 AH/161.5A	(1hr,1.60V/cell,25℃/77℉)
Max. Discharge Current	2000A (5s)	
Internal Resistance	Approx 2.0 mΩ	
Operating Temp. Range	Discharge: -15 ~50℃ (5 ~122℉) Charge: 0 ~ 40℃ (32 ~ 104℉) Storage: -15 ~40℃ (5 ~104℉)	
Nominal Operating Temp. Range	25 ± 3℃ (77± 5℉)	
Cycle Use	Initial Charging Current less than 75 A. Voltage 14.4V~14.9V at 25℃ (77℉) Temp. Coefficient -30mV/℃	
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25℃ (77℉) Temp. Coefficient -20mV/℃	
Capacity affected by Temperature	40℃ (104 ℉) 103% 25℃ (77 ℉) 100% 0℃ (32 ℉) 86%	
Self-Discharge	MEDAL POWER DC series batteries may be stored for up to 6 months at 25℃ (77℉) and battery should be recharge before use. For higher temperatures the time interval will be shorter.	

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Constant Current Discharge (Amperes) at 25℃(77℉)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.80V	561.6	358.0	304.2	194.2	142.7	131.0	83.3	58.5	39.8	26.2	23.4	13.00
1.75V	584.1	372.3	316.4	202.0	148.4	136.3	86.6	60.8	41.4	27.3	24.3	13.5
1.70V	595.3	379.5	322.5	205.9	151.3	138.9	88.3	62.0	42.2	27.8	24.8	13.8
1.65V	606.5	386.7	328.5	209.8	154.2	141.5	90.0	63.2	43.0	28.3	25.3	14
1.60V	617.8	393.8	334.6	213.6	157.0	144.1	91.6	64.4	43.8	28.8	25.7	14.3

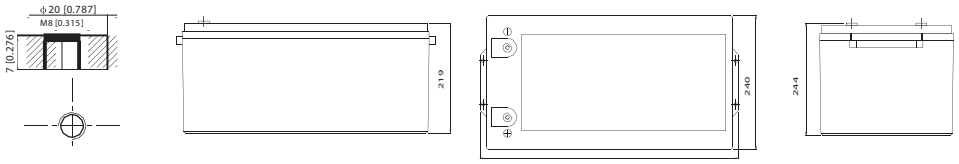
Constant Power Discharge (Watts) at 25℃(77℉)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.80V	1081.1	689.2	585.6	373.9	274.8	252.3	160.4	112.6	76.6	50.5	45.0	25.0
1.75V	1124.3	716.8	609.0	388.8	285.8	262.3	166.8	117.1	79.6	52.5	46.8	26.0
1.70V	1145.9	730.5	620.7	396.3	291.3	267.4	170.0	119.4	81.2	53.5	47.7	26.5
1.65V	1167.6	744.3	632.4	403.8	296.8	272.4	173.2	121.6	82.7	54.5	48.6	27.0
1.60V	1189.2	758.1	644.1	411.3	302.3	277.5	176.4	123.9	84.2	55.5	49.5	27.5

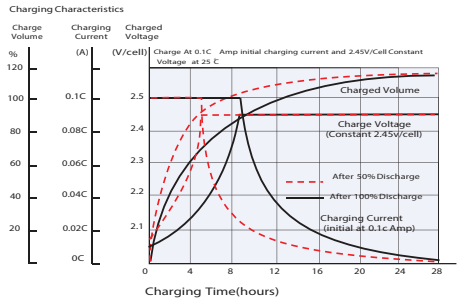
Dimensions

■ T11 Terminal

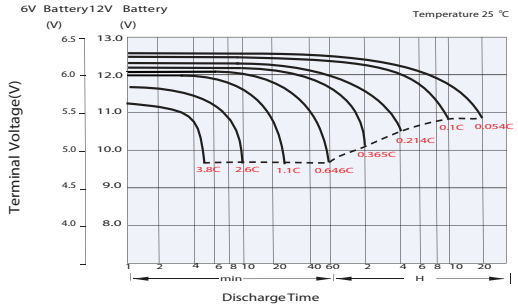
Unit: mm [inches]



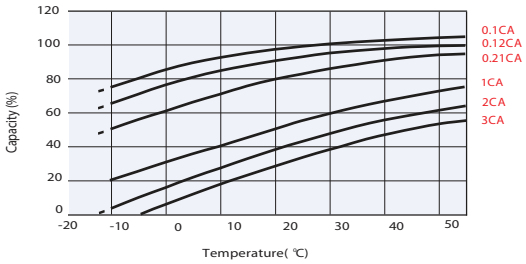
Charging Characteristic s (cycle use)



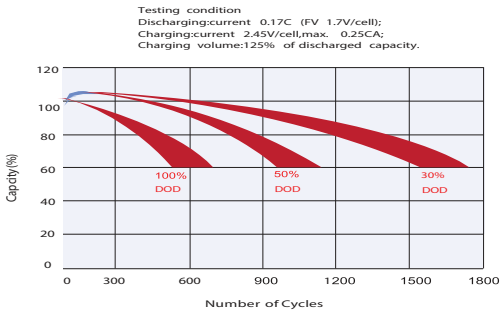
Discharge Characte stics



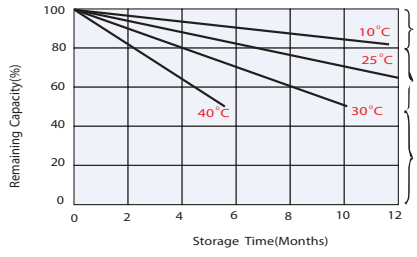
Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



No supplementary charge required

(Carry out supplementary charge before use if 100% capacity is required.)

Supplementary charge required before use.Optional charging way as below:

1.Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.

2.Charged for above 20hours at limited current 0.25CA and constant volt2age 2.45V/cell.

3.Charged for 8~10hours at limited current 0.05CA .

Supplementary charge may often fail to recover the capacity.

The battery should never be left standing till this is reached.