MEDALPOWER

GEL Deep Cycle Battery
12V ,24Ah

MP-12240-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.

LEAVE POWER FOR MEDAL POWER

Technical Specifications

Model	MP-12240-GT	
Nominal Voltage	12V	
Nominal Capacity(10HR)	24AH	
Dimension	Length	165 ±1mm (6.50inches)
	Width	125 ±1mm (4.92inches)
	Container Height	175±1mm (6.89inches)
	Total Height (with Terminal)	182±1mm (7.16inches)
Approx. Weight	Approx 7.5 Kg (16.5lbs)	
Terminal	T6 / T12	
Container Material	ABS	
Rated Capacity	25.7 AH/1.29A	(20hr ,1.80V/cell,25℃/77℉)
	24.0 AH/2.40A	(10hr,1.80V/cell,25℃/77℉)
	21.0 AH/4.21A	(5hr,1.75V/cell,25℃/77℉)
	19.1 AH/6.36A	(3hr,1.75V/cell,25℃/77℉)
	15.5 AH/15.5A	(1hr,1.60V/cell,25℃/77℉)
Max. Discharge Current	360A (5s)	
Internal Resistance	Approx 12.0 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 7. 2 AVoltage 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	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	35.1	29.6	25.8	18.6	14.8	12.0	7.44	5.80	4.70	3.82	3.33	2.72	2.27	1.27
1.80V/cell	44.9	35.7	30.5	21.9	17.2	13.4	8.12	6.24	5.02	4.10	3.57	2.88	2.40	1.29
1.75V/cell	49.3	39.0	32.9	22.8	17.8	14.0	8.43	6.36	5.13	4.21	3.67	2.93	2.42	1.30
1.70V/cell	53.8	41.7	34.5	23.7	18.5	14.5	8.76	6.54	5.27	4.32	3.75	2.98	2.45	1.32
1.65V/cell	58.0	44.3	36.7	25.0	19.0	15.0	9.00	6.82	5.45	4.44	3.83	3.02	2.50	1.34
1.60V/cell	63.0	47.4	39.1	26.4	19.8	15.5	9.31	7.02	5.62	4.58	3.91	3.05	2.52	1.35

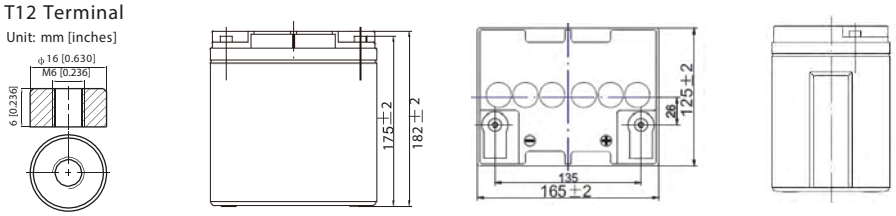
Constant Power Discharge (Watts) at 25℃ (77℉)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	65.6	55.7	49.2	35.7	28.6	23.3	14.5	11.3	9.21	7.50	6.58	5.38	4.49	2.55
1.80V/cell	82.7	66.3	57.3	41.6	33.0	25.9	15.7	12.1	9.78	8.03	7.03	5.70	4.75	2.57
1.75V/cell	89.7	71.8	61.1	43.0	34.0	27.0	16.3	12.3	10.0	8.23	7.22	5.79	4.79	2.59
1.70V/cell	96.4	76.1	63.9	44.6	35.3	27.8	16.9	12.6	10.2	8.41	7.36	5.87	4.84	2.64
1.65V/cell	103.3	80.4	67.6	46.8	36.0	28.6	17.3	13.2	10.6	8.64	7.51	5.96	4.93	2.67
1.60V/cell	110.2	84.9	71.2	49.0	37.2	29.4	17.8	13.5	10.8	8.88	7.65	6.01	4.98	2.68

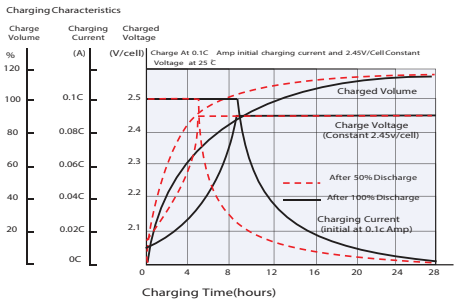
Dimensions

■ T12 Terminal

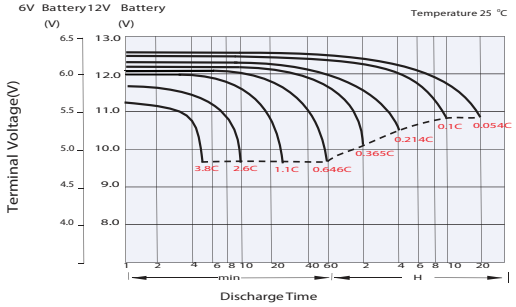
Unit: mm [inches]



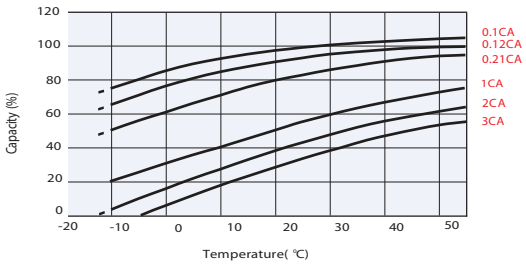
Charging Characteristic s (cycle use)



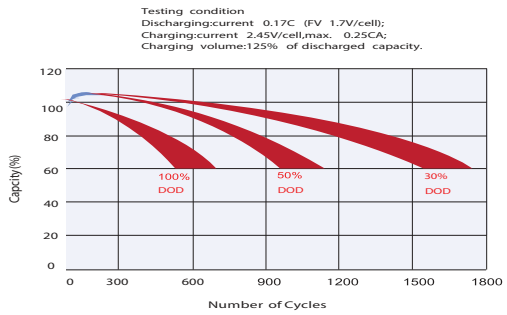
Discharge Characte stics



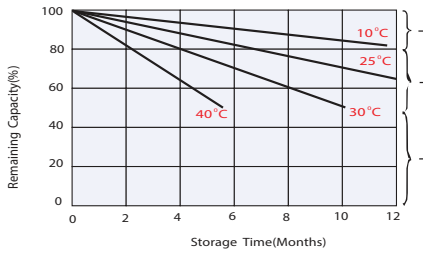
Temperature Effects in Relation to Battery Capacity



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.