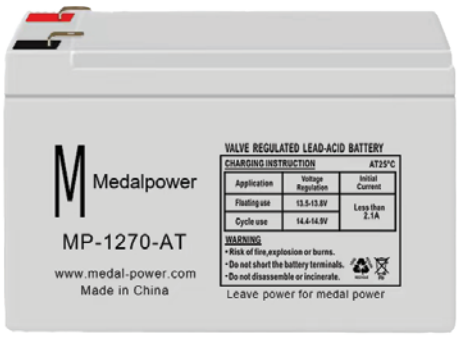
MEDALPOWER

AGM Battery
12V,7Ah

MP-1270-AT



Features:

>> All purpose
>> Uninterruptable Power Supply (UPS)
>> Electric Power System (EPS)
>> Emergency backup power supply
>> Emergency light
>> Railway signal
>> Aircraft signal
>> Alarm and security system
>> Electronic apparatus and equipment
>> Communication power supply
>> Auto controlsystem

LEAVE POWER FOR MEDAL POWER

Technical Specifications

Model	MP-1270-AT	
Nominal Voltage	12V	
Nominal Capacity(20HR)	7AH	
Dimension	Length	151±1mm (5.95 inches)
	Width	65 ± 1mm (2.56 inches)
	Container Height	94.5± 1mm (3.72 inches)
	Total Height (with Terminal)	99±1mm (3.9 inches)
Approx. Weight	Approx2.10 kg (4.63lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity	8.00 AH/0.40A	(20hr ,1.80V/cell,25℃/77℉)
	7.00 AH/0.7A	(10hr,1.80V/cell,25℃/77℉)
	6.50 AH/1.30A	(5hr,1.75V/cell,25℃/77℉)
	5.95 AH/1.98A	(3hr,1.75V/cell,25℃/77℉)
	5.37AH/5.37A	(1hr,1.60V/cell,25℃/77℉)
Max. Discharge Current	105A (5s)	
Internal Resistance	Approx. 23mΩ	
Operating Temp. Range	Discharge: -15 ～50℃ (5 ～122℉) Charge: -5 ～50℃ (23 ～122℉) Storage: -15 ～40℃ (5 ～104℉)	
Nominal Operating Temp. Range	25 ± 3℃ (77± 5℉)	
Cycle Use	Initial Charging Current less than2.1A.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 batteries may be stored for up to 6 months at 25C (77F) 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℉)

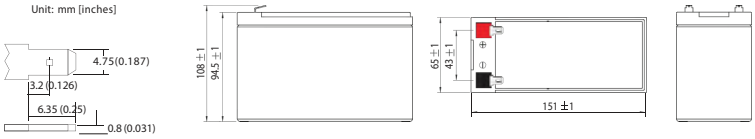
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	13.3	10.2	8.48	7.33	5.67	4.18	3.52	2.08	1.63	1.32	1.08	0.94	0.756	0.631	0.347
1.80V/cell	17.9	13.1	10.2	8.67	6.69	4.86	3.94	2.27	1.75	1.41	1.16	1.01	0.802	0.651	0.350
1.75V/cell	20.2	14.4	11.2	9.32	6.94	5.04	4.13	2.36	1.79	1.45	1.19	1.03	0.816	0.669	0.354
1.70V/cell	22.2	15.7	11.9	9.80	7.23	5.24	4.26	2.42	1.83	1.48	1.22	1.05	0.827	0.682	0.360
1.65V/cell	24.5	16.9	12.7	10.4	7.63	5.37	4.35	2.45	1.91	1.54	1.25	1.08	0.840	0.696	0.365
1.60V/cell	27.0	18.4	13.6	11.1	8.05	5.60	4.40	2.56	1.97	1.58	1.30	1.10	0.848	0.704	0.367

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

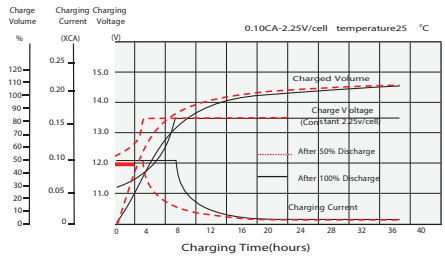
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	24.4	18.9	15.8	13.8	10.8	8.03	6.79	4.04	3.18	2.59	2.12	1.84	1.492	1.250	0.686
1.80V/cell	32.4	23.9	18.9	16.1	12.6	9.26	7.57	4.38	3.40	2.75	2.26	1.97	1.578	1.286	0.692
1.75V/cell	35.7	25.8	20.3	17.2	12.9	9.52	7.88	4.53	3.45	2.80	2.31	2.02	1.602	1.319	0.698
1.70V/cell	38.2	27.5	21.4	17.9	13.4	9.86	8.10	4.63	3.54	2.87	2.37	2.05	1.622	1.345	0.710
1.65V/cell	41.6	29.4	22.6	18.9	14.0	10.0	8.23	4.67	3.67	2.96	2.43	2.09	1.644	1.370	0.719
1.60V/cell	44.8	31.2	23.8	19.9	14.7	10.4	8.26	4.85	3.76	3.04	2.50	2.13	1.656	1.383	0.722

Dimensions

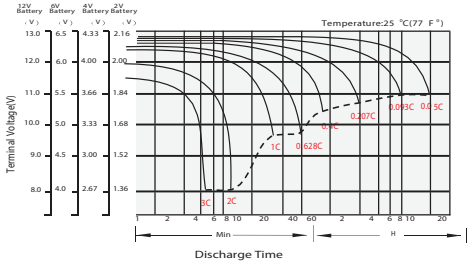
T1 Terminal
Unit: mm [inches]



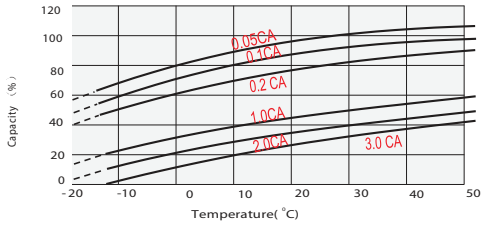
Float Charging Characteristics



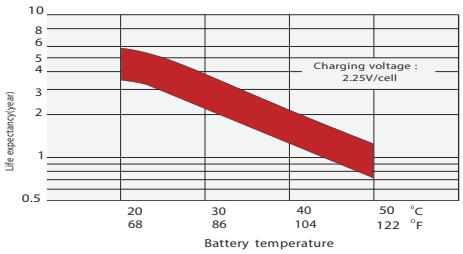
Discharge Characteristics



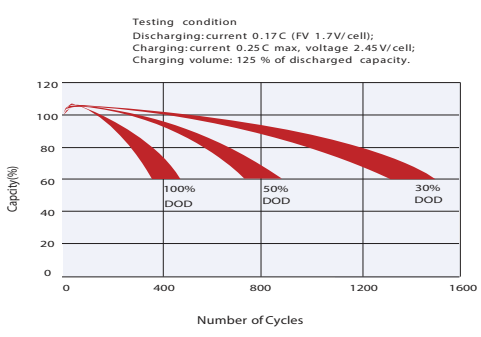
Temperature Effects in Relation to Battery Capacity



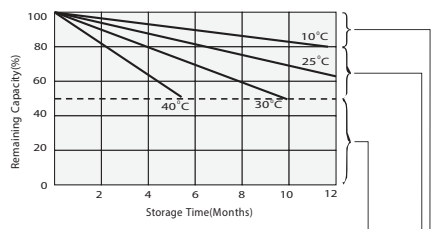
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

Supplementary charge required before us e.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 20 hours a t limited current 0.25CA and constant voltage 2.45V/cell.
3.Charged for 8~10hou rs at limited current 0.05CA .

No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)