



AGM BATTERY

Absorbed Glass-Mat Batteries



The battery is rechargeable, highly efficient, leak proof and maintenance free.

SPECIFICATION

Cells Per Unit	6
Voltage Per Unit	12
Capacity	210Ah @ 20HR to 1.75V/cell @25°C (77°F)
Weight	Approx. 61.0kg (134.50 lbs)
Maximum Discharge Current	1600A (5sec)
Internal Resistance	Approx. 3mΩ
Operating Temperature Range	Discharge: -15°C~50°C(5°F~122°F) Charge: -15°C~40°C(5°F~104°F) Storage: -15°C~40°C (5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 V DC/unit Average at 25°C (77°F)
Recommended Maximum Charging Equalization and Cycle Service	40A 14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	Batteries can be stored for over 6 months at 25°C(77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	Recessed type (M8 bolt)
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



MH 27774



IT1720HL22031803

batteries

are certified by ISO 9001,
ISO14001 and OHSAS18001.

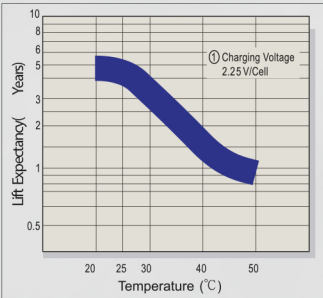
DIMENSIONS

Dimensions :	Length (L)	Width (W)	Container Height (H)	Overall Height (H)
Unit: MM (Inch)	522±2.5 (20.55±0.10)	240±2(9.45±0.08)	218±2.0 (8.58±0.08)	223±2.5(8.78±0.10)

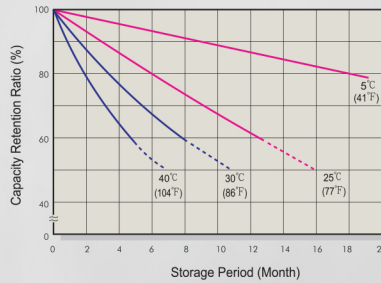
Constant Current Discharge Characteristics						Unit: A(25°C, 77°F)			
F.V/Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	395.0	326.0	200.00	117.40	53.52	35.81	23.55	19.99	10.66
1.67V	376.3	312.3	193.02	114.00	52.41	35.05	23.36	19.96	10.63
1.70V	367.4	308.1	182.45	110.20	51.67	34.67	23.18	19.93	10.60
1.75V	347.6	294.4	172.64	108.00	51.11	34.48	22.80	19.82	10.50
1.80V	328.8	280.8	159.25	100.40	50.19	34.10	21.87	19.50	10.35
1.85V	292.4	257.6	140.38	94.80	48.52	33.52	21.50	18.74	10.00
Constant Power Discharge Characteristics						Unit: W(25°C, 77°F)			
F.V/Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	705.1	599.4	358.11	215.40	103.89	71.05	47.10	39.24	20.60
1.67V	678.6	580.5	350.00	211.60	102.22	69.71	46.73	38.86	20.40
1.70V	668.7	573.1	335.28	208.00	101.11	69.14	46.36	38.48	20.20
1.75V	640.0	550.0	320.75	205.60	100.56	68.76	45.61	38.29	20.10
1.80V	608.0	524.7	303.40	194.00	99.63	68.38	44.11	37.71	19.80
1.85V	552.8	486.9	271.51	186.40	97.59	68.00	43.55	37.14	19.50

Ratings presented herein are subject to revision without notice.

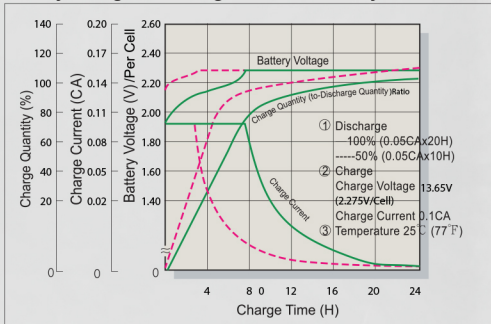
Trickle(or Float)Design Life



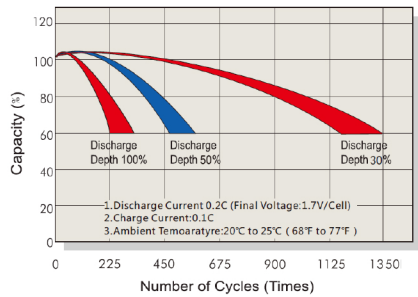
Capacity Retention Characteristic



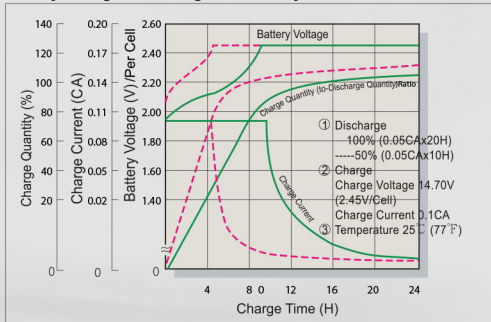
Battery Voltage and Charge Time for Standby Use



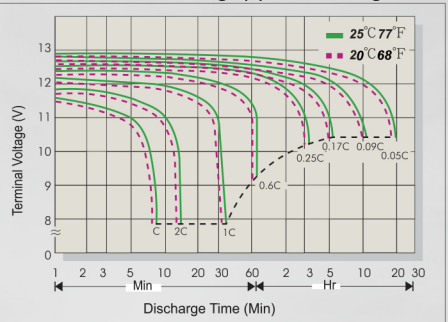
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C	2.450	2.40~2.50	0.3C
Standby	25°C	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current(A)	<0.2C	0.2C~0.5C	0.5C~1.0C	>1.0C

Effect of temperature on capacity (20HR)

Temperature	Dependency of capacity(20HR)
40°C	102%
25°C	100%
0°C	85%
-15°C	65%

Self-discharge Characteristics

Charge Voltage(V/Cell)	Charge Voltage(V/Cell)
3 Months	91%
6 Months	82%
12 Months	64%