

GEL BATTERY

KG 2-500 2V500AH



FEATURES

- Low self-discharge and long shelf life
- Non-Spillable construction
- Safety valve installation for explosion proof
- Exceptional deep discharge recovery performance
- 99.7% pure lead calcium grids and A recognized Component of U.L

APPLICATION

- Photovoltaic system
- Telecommunications
- Emergency Power System
- Control Equipment
- Power plant and power transformer system



SPECIFICATIONS

Nominal Voltage	2V
Nominal Capacity	500Ah@10 hour rate F.V.(1.80V/cell)
Approx. Weight	31Kg (68.34lbs.)
Terminals	I3(Fitting M8 bolt) is optional
Internal Resistance	≤0.1mΩ (Fully Charged)
Max. Discharge Current	2500A (5 sec)
Max. Charge Current	100A
Operating Temperature Range	Charge: -10°C~50°C (14°F~122°F) Discharge: -20°C~50°C (-4°F~122°F) Storage: -20°C~50°C (-4°F~122°F)
Self Discharge	3% of capacity declined per month at (25°C)

ISO 9001

- IEC 60896-2
- JIS C 8704.2
- GB/T 19638.2

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

240±2.0mm(9.45±0.08inch)

Width

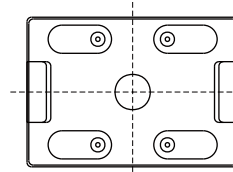
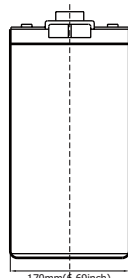
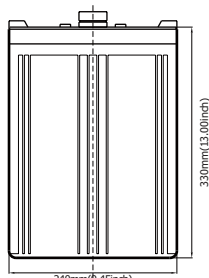
170±2.0mm(6.69±0.08inch)

Container Height

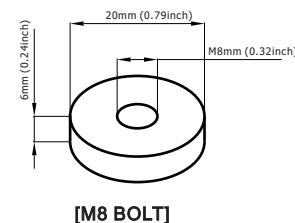
330±2.0mm(12.99±0.08inch)

Total Height

354±2.0mm(13.94±0.08inch)



Terminal I3



[M8 BOLT]

Terminal Hardware Initial Torque: I3(5.5Nm±5%)

Constant power discharge characteristics at 25°C/77°F Unit:W

F. V/Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR	Charge Voltage	
1.60V	1546	1156	930.0	625.0	270.0	167.0	91.9	46.00	Cycle use	2.35-2.40V (±4mV)
1.65V	1457	1094	883.0	599.0	260.0	164.0	90.2	45.10		
1.70V	1366	1030	836.0	572.0	247.0	161.0	88.6	44.30	Max. Current	100A
1.75V	1276	967	787.0	543.0	236.0	157.0	86.4	43.20		
1.80V	1187	903	738.0	510.0	217.0	149.0	82.0	41.00		

Constant current discharge characteristics at 25°C/77°F Unit:A

F. V/Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR	Float Use	
1.60V	1050	850	545	345	157.0	102.0	53.0	26.8	Float Use	2.25-2.30V (±3mV)
1.65V	970	798	530	340	152.0	97.6	52.8	26.7		
1.70V	900	750	505	325	145.0	92.5	52.5	26.5		
1.75V	833	709	490	316	137.0	91.6	52.1	26.4		
1.80V	758	649	472	303	135.0	89.3	50.0	26.2		

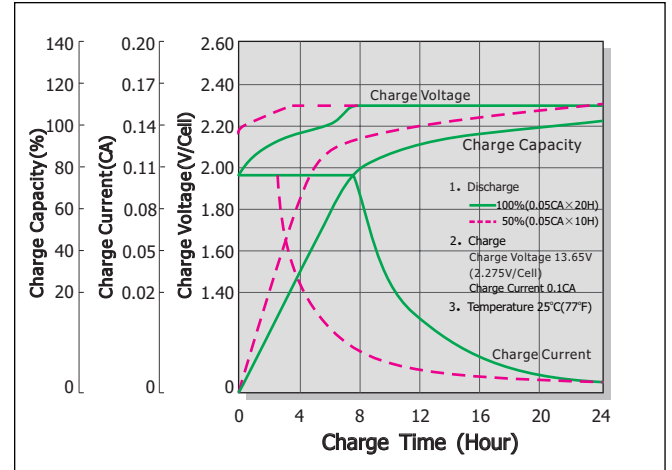
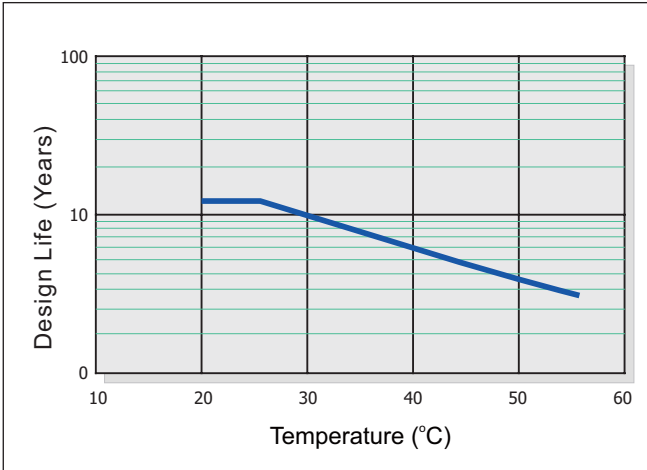
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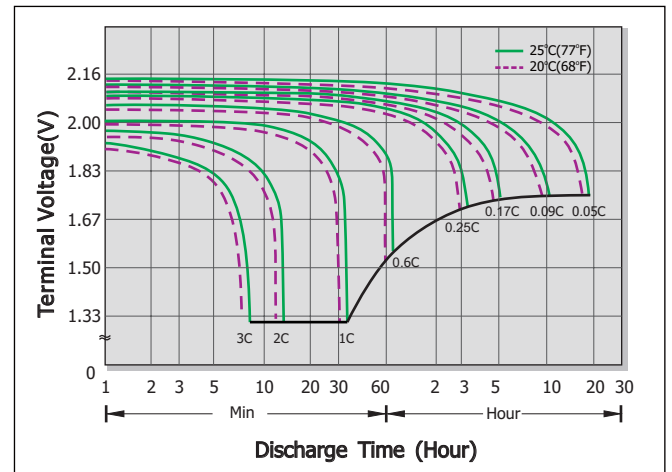
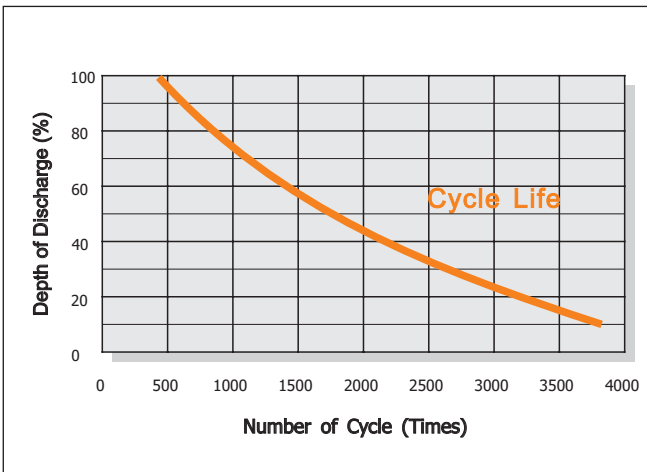
Trickle(or Float) Service Life

Charge Characteristic



Depth of Discharge vs. Cycles

Discharge Characteristic



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	55%	75%	85%	88%	90%	98%	100%	102%	104%	105%
	2V	65%	80%	88%	90%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

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