

GEL BATTERY

KG 2-1000 2V1000AH



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	1000Ah@10 hour rate F.V.(1.80V/cell)
Approx. Weight	61Kg (134.48lbs.)
Terminals	I3(Fitting M8 bolt) is optional
Internal Resistance	≤0.52mΩ (Fully Charged)
Max. Discharge Current	5000A (5 sec)
Max. Charge Current	200A
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

471±2.0mm(18.54±0.08inch)

Width

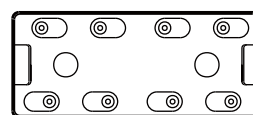
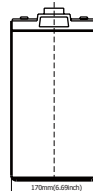
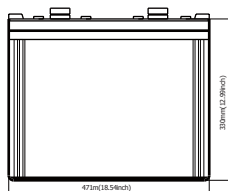
170±2.0mm(6.69±0.08inch)

Container Height

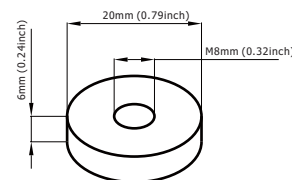
330±2.0mm(12.99±0.08inch)

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	2965	2421	1804	1114	365	375	206.0	103.0	Cycle use	2.35-2.40V (±4mV)
1.65V	2793	2290	1713	1067	359	368	203.0	102.0		
1.70V	2620	2158	1621	1018	353	361	199.0	100.0	Max. Current	200A
1.75V	2447	2020	1525	967	346	355	195.0	97.5		
1.80V	2276	1890	1427	917	336	335	184.0	92.0		

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	2100	1700	1090	690	315	196	107.0	55.4	Float Use	2.25-2.30V (±3mV)
1.65V	1940	1597	1060	680	305	193	106.0	55.3		
1.70V	1800	1500	1010	650	290	186	105.0	55.2		
1.75V	1677	1418	993	633	274	183	104.0	55.0		
1.80V	1515	1299	980	606	270	179	100.0	54.8		

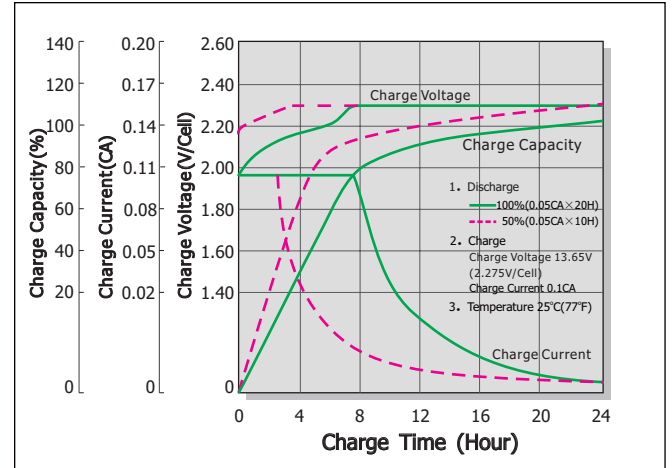
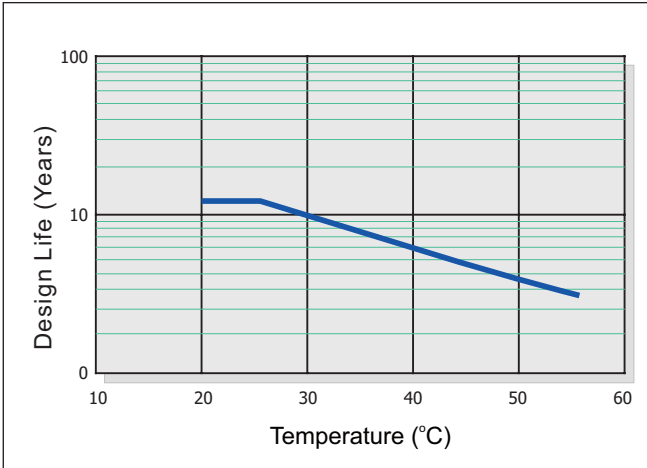
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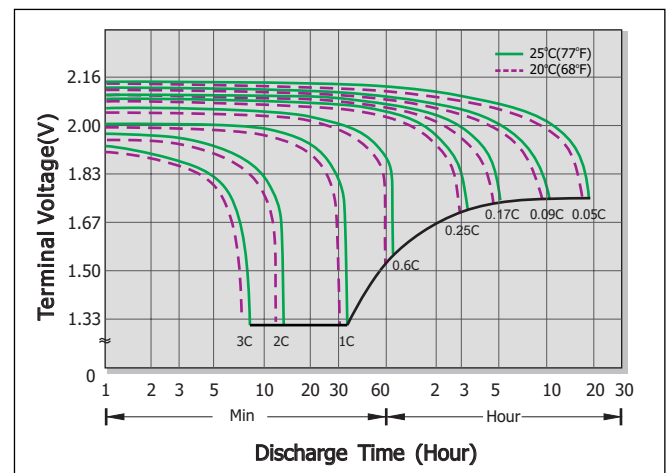
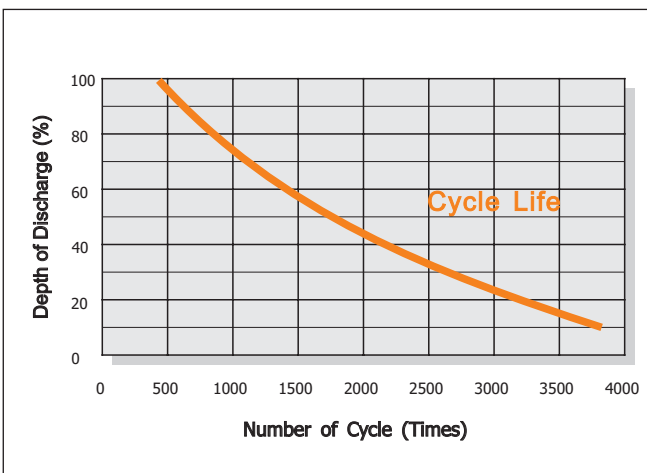
Trickle(or Float) Service Life

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%

KWEIGHT TECHNOLOGY CO.,LTD.

8/F, DongFangTianDe Bldg., BaiShiLong YiXiuXinCun, MinZhi, Longhua District, Shenzhen, China.

Tel: +86 755 82730552/82730553/23353637/23353687

Fax: +86 755 82730578

Email: kweight@kweight.net

Web: www.kweight.net

www.kweightbattery.com