

GEL BATTERY

KG12-80 12V80AH



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
- Power plant and power transformer system
- Control Equipment



SPECIFICATIONS

Nominal Voltage	12V
Nominal Capacity	80Ah@10 hour rate F.V.(1.80V/cell)
Approx. Weight	26.00Kg (57.32lbs.)
Terminals	B5 (Fitting M6 bolt & nut), I2 are optional
Internal Resistance	≤6.5mΩ (Fully Charged)
Max. Discharge Current	800A (5 sec)
Max. Charge Current	20.0A
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

332±1.5mm(13.07±0.06inch)

Width

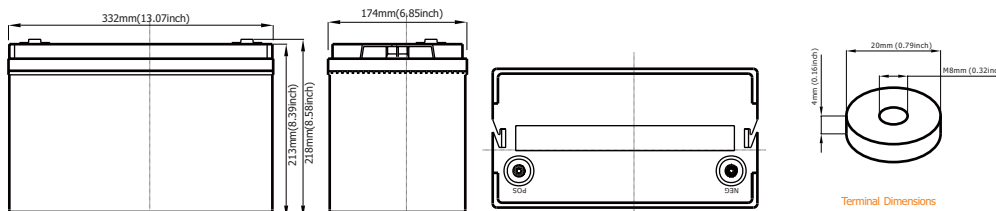
174±1.5mm(6.85±0.06inch)

Container Height

213±1.5mm(8.39±0.06inch)

Total Height

218±2.0mm(8.58±0.06inch)



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

F. V/Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	318	248	158	104	41.9	29.4	17.0	8.43
1.65V	314	246	155	101	41.7	29.3	16.7	8.40
1.70V	306	242	151	97.9	41.5	29.2	16.6	8.38
1.75V	286	227	147	97.0	41.3	28.9	16.3	8.36
1.80V	266	214	143	95.4	40.7	28.4	16.0	8.07

Charge Voltage	
Cycle use	14.4-14.7V (±4mV)
Max. Current	20.0A

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

F. V/Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	192	140	84.0	52.8	22.1	15.3	8.48	4.24
1.65V	175	136	81.6	52.7	22.0	15.2	8.36	4.22
1.70V	169	131	80.0	52.6	21.8	15.1	8.29	4.20
1.75V	156	124	78.4	52.0	21.6	15.0	8.15	4.18
1.80V	145	118	76.0	51.4	21.5	14.9	8.01	4.03

Float Use
13.5-13.8V (±3mV)

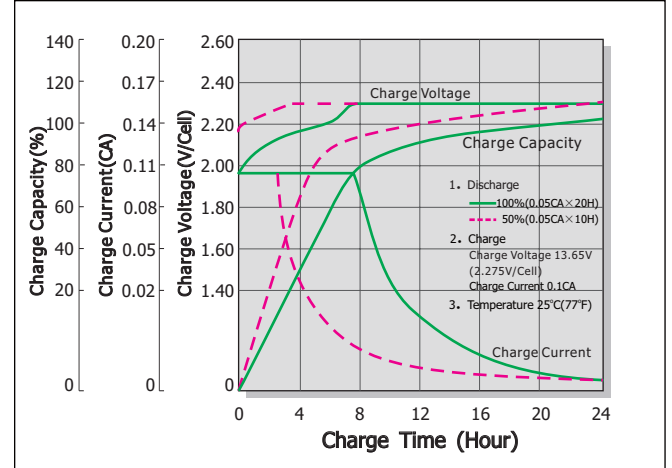
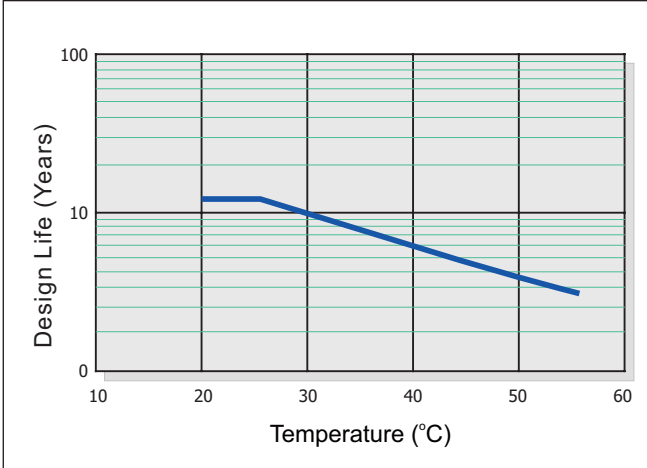
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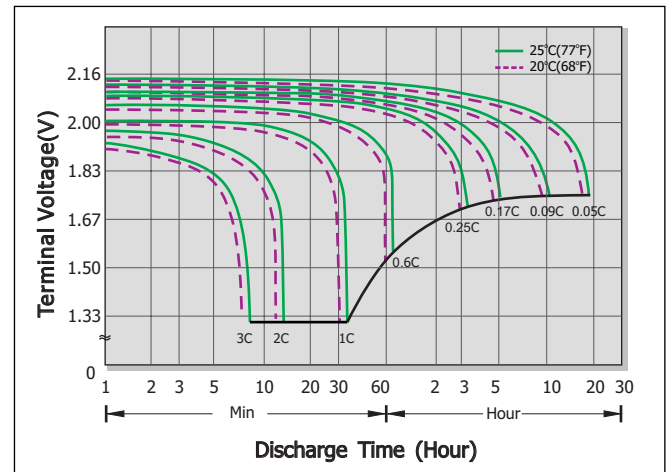
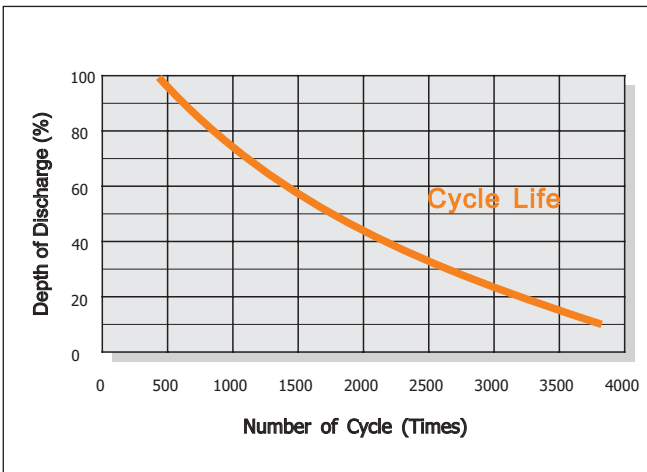
Trickle(or Float) Service Life

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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