

GEL BATTERY

KG12-150 12V150AH



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	150Ah@10 hour rate F.V.(1.80V/cell)
Approx. Weight	44.5Kg (98.11lbs.)
Terminals	B9 (Fitting M8 bolt & nut), I2 are optional
Internal Resistance	≤3.8mΩ (Fully Charged)
Max. Discharge Current	1200A (5 sec)
Max. Charge Current	37.5A
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

483±1.5mm(19.02±0.06inch)

Width

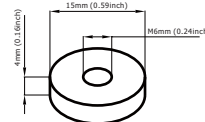
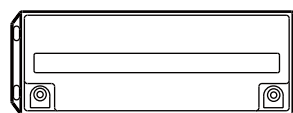
170±1.5mm(6.69±0.06inch)

Container Height

241±1.5mm(9.49±0.06inch)

Total Height

241±2.0mm(9.49±0.06inch)



Terminal Dimensions

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	592	460	292	192	78.4	54.7	31.5	15.7	Cycle use	14.4-14.8V (±4mV)
1.65V	585	456	288	188	78.1	54.4	31.2	15.6		
1.70V	571	447	279	183	77.8	54.2	30.8	15.4	Max. Current	37.5A
1.75V	528	421	271	177	77.0	53.9	30.4	15.3		
1.80V	494	398	263	171	76.1	53.1	29.8	15.1		

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	354	260	155	98.8	40.8	28.4	15.6	7.90	Float Use	13.5-13.8V (±3mV)
1.65V	317	253	151	98.5	40.6	28.3	15.4	7.89		
1.70V	308	244	148	98.2	40.5	28.1	15.3	7.88		
1.75V	289	228	145	97.4	40.3	28.1	15.2	7.84		
1.80V	266	215	141	95.5	40.1	27.8	15.0	7.56		

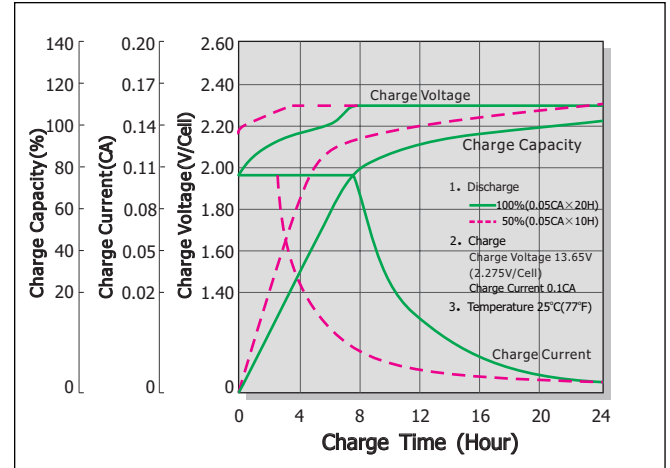
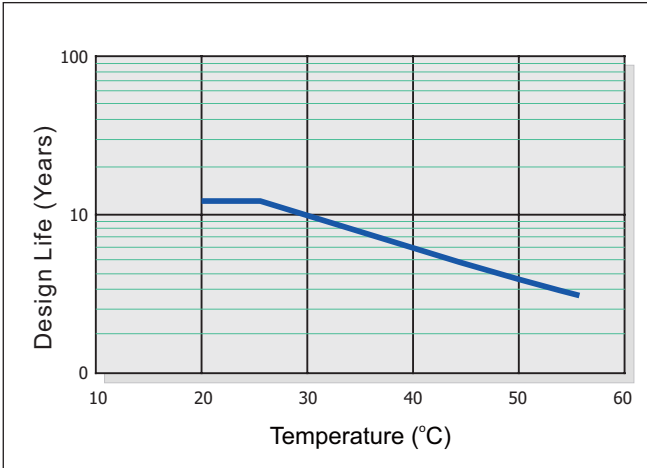
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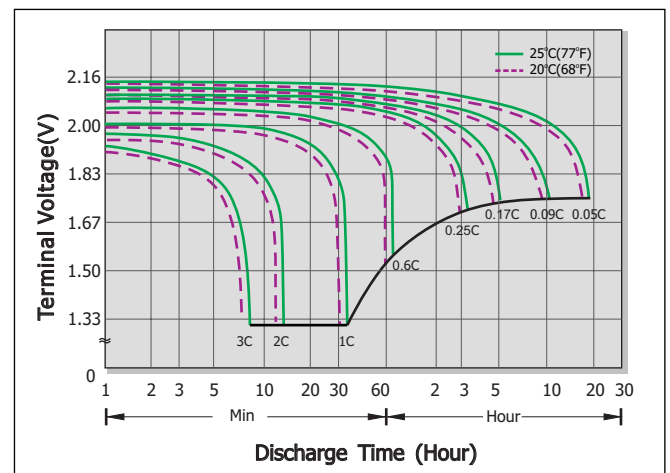
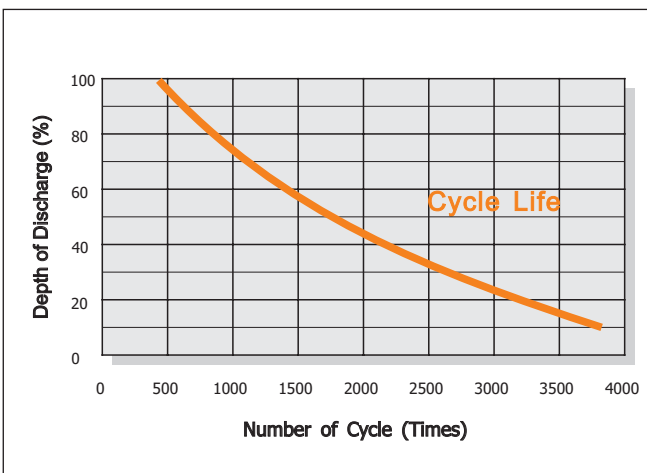
Trickle(or Float) Service Life

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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