

GEL BATTERY

KG12-100 12V100AH

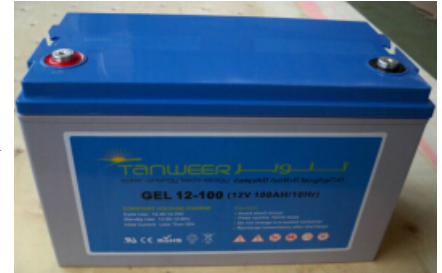


FEATURES

- 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	100Ah@10 hour rate F.V.(1.80V/cell)
Approx. Weight	29.50Kg (65.04lbs.)
Terminals	B3 (Fitting M6 bolt & nut), I2 are optional
Internal Resistance	≤ 5.5mΩ (Fully Charged)
Max. Discharge Current	1000A (5 sec)
Max. Charge Current	25.0A
Operating Temperature Range	Charge: -20°C~50°C (-4°F~122°F) Discharge: -20°C~60°C (-4°F~140°F) Storage : -20°C~40°C (-4°F~104°F)
Self Discharge	3% of capacity declined per month at (25°C)

ISO 9001

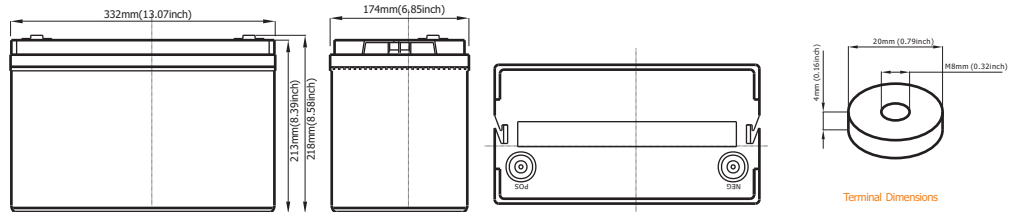
- IEC 60896.2
- JIS C 8704.2
- GB/T 19638.2

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	Charge Voltage	
									Cycle use	Max. Current
1.60V	390	303	196	128	52.3	36.4	21.1	10.4	14.4-14.8V (±4mV)	25.0A
1.65V	382	295	191	125	52.2	36.3	20.8	10.3		
1.70V	369	286	186	121	52.0	36.1	20.6	10.2		
1.75V	347	274	180	119	51.4	36.0	20.3	10.2		
1.80V	318	262	174	116	50.5	35.4	20.0	10.0		

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

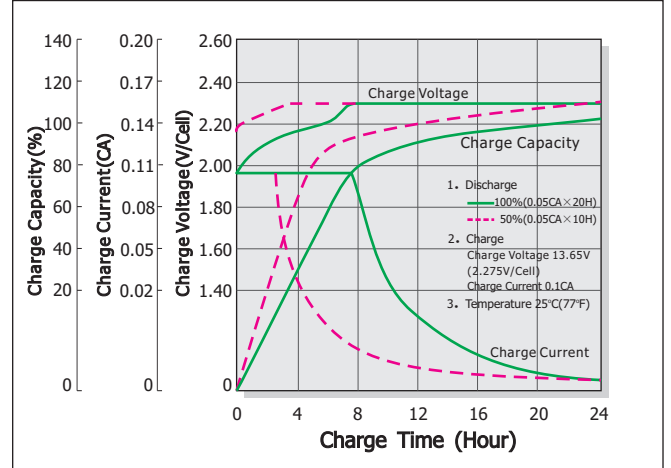
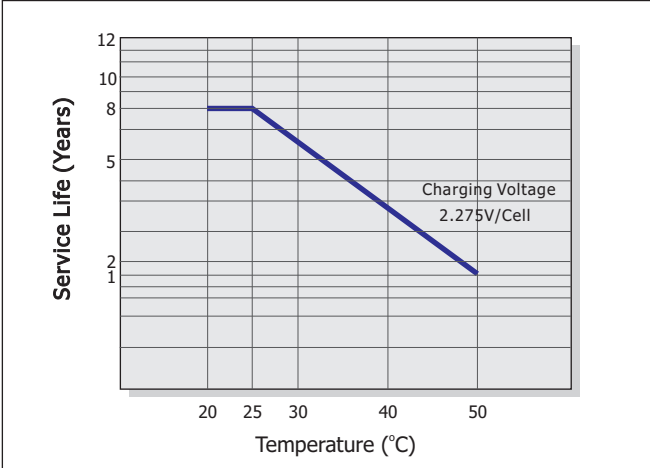
F.V/Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR	Float Use	
									Float Use	
1.60V	236	172	103	65.9	27.2	19.0	10.3	5.27	13.5-13.8V (±3mV)	
1.65V	217	168	100	65.6	27.1	18.9	10.2	5.25		
1.70V	208	163	98	65.2	27.0	18.8	10.1	5.23		
1.75V	193	152	96	64.7	26.8	18.6	10.0	5.18		
1.80V	180	146	93	63.9	26.6	18.4	10.0	5.04		

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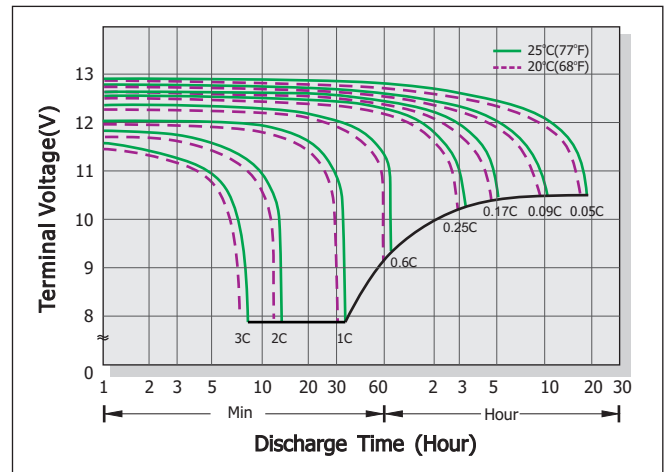
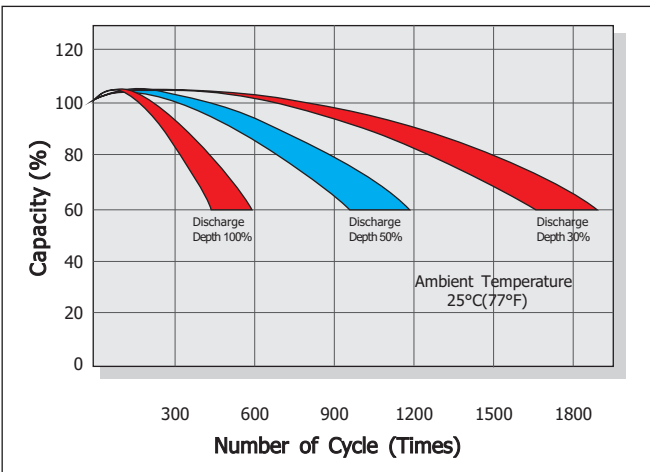
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Trickle(or Float) Service Life **Charge Characteristic**



Cycle Service Life **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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