

KBG122000 GEL 12V 200Ah



Gel battery shows some distinctive advantages over flooded battery or AGM battery, such as super thermal stability, high deep discharge capability, good recovery from deep discharge, even if the battery is left discharged for three days, it will recover to 100% of capacity. With the above-mentioned advantages, the gel battery has long service life, specially suitable for motive power applications, such as golf trailer, scrubber, folklift, etc. The deep discharge cycles increased 50% as compared with the AGM battery.



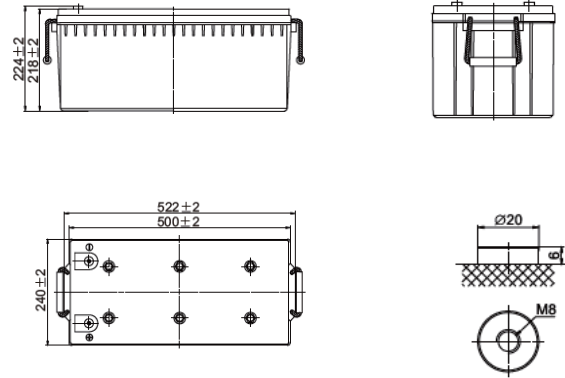
Performance Characteristics

Nominal Voltage	12V		
Design Life	12 years		
Dimensions	Length (mm / inch)	522 / 20.6	
	Width (mm / inch)	240 / 9.45	
	Height (mm / inch)	218 / 8.58	
	Total Height (mm / inch)	224 / 8.82	
Approx. Weight	(Kg / lbs)	60.3 / 132.9	
	Terminal	M8	
Container Material	ABS		
Rated Capacity	206.0 Ah / 10.3 A	(20hr, 1.80V / cell, 25°C / 77°F)	
	200 Ah / 20.0 A	(10hr, 1.80V / cell, 25°C / 77°F)	
	170.0 Ah / 34.0 A	(5hr, 1.75V / cell, 25°C / 77°F)	
	113.9 Ah / 113.9 A	(1hr, 1.60 / cell, 25°C / 77°F)	
Max. Discharge Current	2000A (5s)		
Internal Resistance	Approx 3.2mΩ		
Operating Temp. Range	Discharge :	-20 ~ 55°C (-4 ~ 131°F)	
	Charge :	-20 ~ 40°C (32 ~ 104°F)	
	Storage :	-20 ~ 50°C (-4 ~ 122°F)	
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)		
Cycle Use	Initial charging current	less than 50.0A	
	Voltage:	14.4V ~ 15.0V at 25°C (77° F)	
	Temp. Coefficient:	-30mV/°C	
Standby Use	Initial charging current	less than 50.0A	
	Voltage	13.5V ~ 13.8V at 25°C (77° F)	
	Temp. Coefficient:	-20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%	
	25°C (77°F)	100%	
	0°C (32°F)	86%	
Self Discharge	Fully charged Kaise Gel Series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.		

Discharge Constant Current (Amperes) at 77°F (25°C)

Volts/cell	20min	30min	45min	1h	3h	5h	10h	20h
1.80V	426.5	319.2	122.8	99.6	47.5	33.2	20.0	10.3
1.75V	490.8	358.0	129.9	105.4	49.2	34.0	20.2	10.4
1.70V	546.8	394.7	136.4	110.0	50.9	34.9	20.3	10.6
1.65V	597.2	421.9	140.5	113.9	52.8	35.7	20.5	10.7
1.60V	664.0	461.8	148.5	119.4	54.7	36.4	20.8	10.8

Dimensions and Terminal (Unit: mm (inches))



Applications

- Wind and solar energy systems
- Cable TV systems
- Telecommunications
- Electric wheel chairs
- Military equipment
- Emergency lighting
- Power plants
- Medical equipment
- Golf carts

Certifications

ISO 9001:2008 ISO 14001:2008



Discharge End Voltage vs. Discharge Current

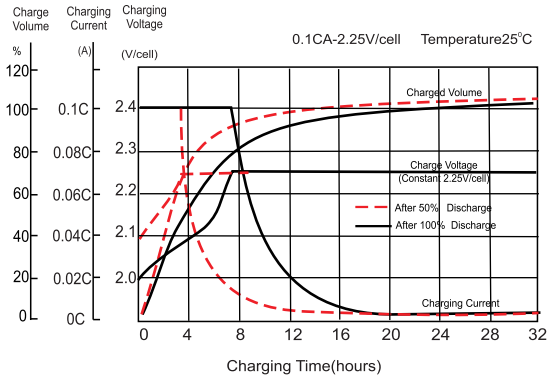
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	I ≤ 0.1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA

Discharge Constant Power (Watts per cell) at 77°F (25°C)

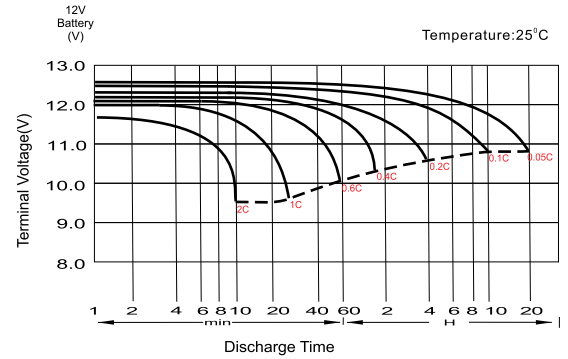
Volts/cell	20min	30min	45min	1h	3h	5h	10h	20h
1.80V	778.1	310.4	235.3	192.0	92.4	65.0	39.7	20.5
1.75V	875.6	328.0	246.8	202.1	95.5	66.4	40.0	20.6
1.70V	947.0	343.5	257.7	210.1	98.5	68.0	40.2	21.0
1.65V	1017.5	356.5	263.3	216.1	101.7	69.4	40.5	21.2
1.60V	1105.2	375.7	276.6	225.4	104.8	70.5	41.1	21.3

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

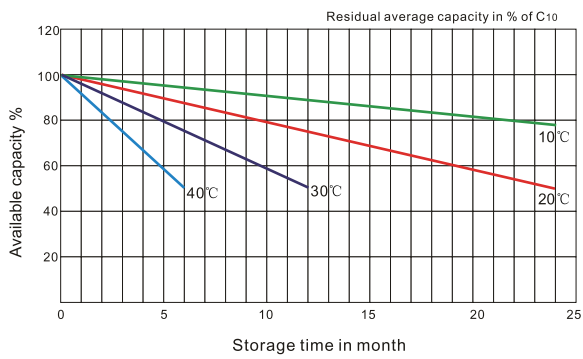
Float Charging Characteristics



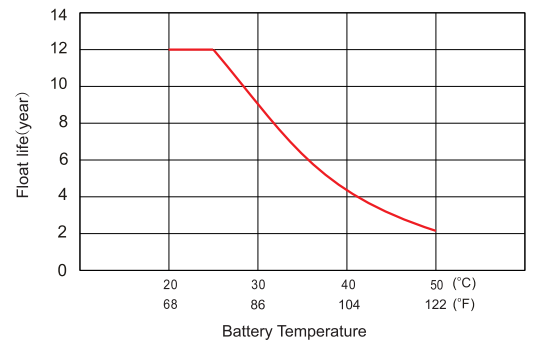
Discharge Characteristics



General Relation of Capacity VS Storage Team



Effect of Temperature on Long Term Float Life



IMPORTANT NOTE: The specifications presented herein are subject to revision without notice.