

KBG122000 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.



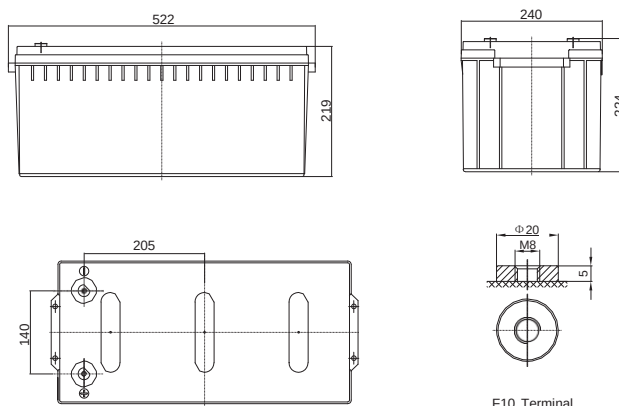
Performance Characteristics

Nominal Voltage	12V		
Design Life	15 years		
Dimensions	Length (mm / inch)	522 / 20.6	
	Width (mm / inch)	240 / 4.45	
	Height (mm / inch)	214 / 8.62	
	Total Height (mm / inch)	224 / 8.82	
Approx. Weight	(Kg / lbs)	58.0 / 127.8b	
Terminal	M8		
Container Material	ABS		
Rated Capacity	18.1Ah / 18.1A	(10hr, 1.70V / cell, 25°C / 77°F)	
	31.bAh / 31.bA	(5hr, 1.70V / cell, 25°C / 77°F)	
	101.5Ah / 101.5A	(1hr, 1.70V / cell, 25°C / 77°F)	
Max. Discharge Current	2000A (5s)		
Internal Resistance	Approx 5.2mΩ		
Operating Temp. Range	Discharge : -40 - 60°C (-40 - 140°F)		
	Charge : -20 - 50°C (-4 - 122°F)		
	Storage : -40 - 60°C (-40 - 140°F)		
Nominal Operating Temp. Range	25 ± 5°C (77 ± 5°F)		
Cycle Use	Maximum charging current 40A		
	Voltage: 13.b7 - 13.8V at 25°C (77°F)		
	Temp. CPNQFOTBUJPO: -3mV/°C		
Standby Use	Maximum charging current 20A		
	14.2V - 14.4V at 25° C (77° F)		
	Temp. CPNQFOTBUJPO: -4mV/°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	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	23b.0	204.3	14b.1	44.0	44.1	30.0	17.b	4.40
1.75V	2b0.7	221.3	152.8	47.8	45.5	30.8	17.8	10.0
1.70V	284.4	237.8	154.4	101.5	4b.4	31.b	18.1	10.1
1.65V	30.4.4	253.4	1b7.3	104.4	48.2	32.4	18.3	10.2
1.60V	327.4	2b5.5	174.2	108.b	44.7	33.3	18.b	10.4

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

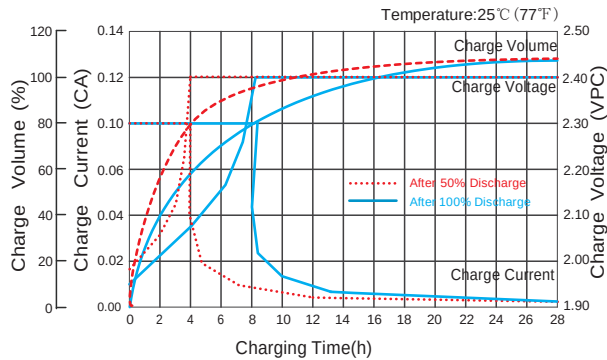
Final discharge voltage V/CELL	1,8	1,75	1,7	1,6
Discharge current (A)	$I \leq 0,1CA$	$0,25CA \geq I > 0,1CA$	$0,55CA \geq I > 0,25CA$	$I > 0,55CA$

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

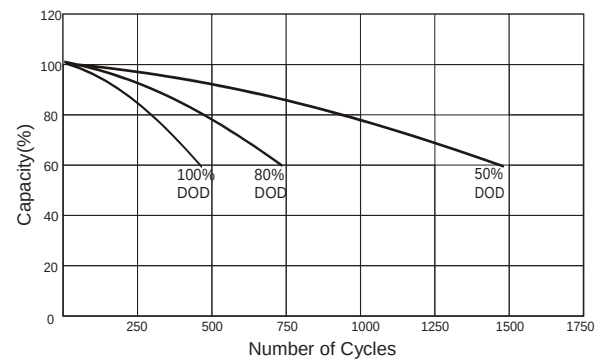
Volts/cell	10min	15min	30min	1h	3h	5h
1.80V	440.2	430.1	314.0	205.b	47.3	bb.7
1.75V	532.2	454.3	325.2	212.b	100.0	b8.2
1.70V	571.1	48b.5	33b.8	214.3	102.7	b4.7
1.65V	b01.8	507.5	348.2	225.b	105.3	71.3
1.60V	b32.5	527.5	354.b	231.4	108.3	72.4

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

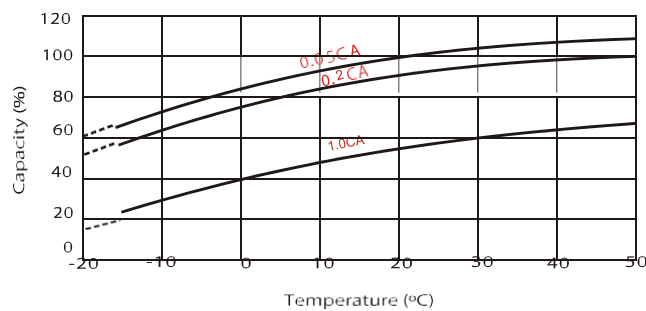
Charging Characteristics (cycle use)



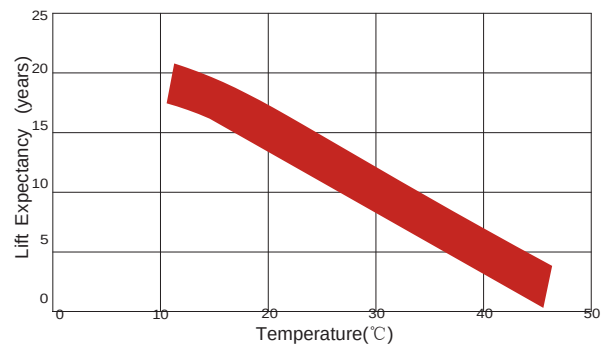
Cycle Life in Relation to Depth of Discharge



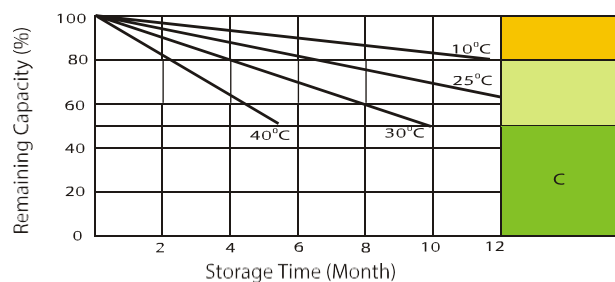
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



- A** No supplementary charge required
(carry out supplementary charge before use if 100% capacity is required)
- B** Supplementary charge required before use. Optional charging way a below:
 1. Charged for above 3 days at limited current 0.25 CA and constant voltage 2.25V / cell.
 2. Charged to above 20 hours limited current 0.25CA and constant voltage 2.45V / cell.
 3. Charged for 8-10 hours at limited current 0.05 CA.
- C** Supplementary charge often fail to recover the capacity.
The battery should never be left standing till this is reached.

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