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.



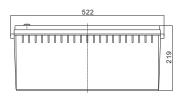
Performance Characteristics

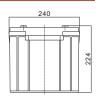
Nominal Voltage	12V				
Design Life	15 years				
Dimensions	Length (mm / inch)	522 / 20.6			
	Width (mm / inch)	240 / 9.45			
	Height (mm / inch)	219 / 8.62			
	Total Height (mm / inch) 224 / 8.82			
Approx. Weight	(Kg / lbs)	58.0 / 127,86			
Terminal	M8				
Container Material	ABS				
Rated Capacity	18.1Ah / 18.1A	(10hr, 1.70V / cell, 25ºC / 77ºF)			
	31.6Ah / 31.6A	(5hr, 1.70V / cell, 25ºC / 77ºF)			
	101.5Ah / 101.5A	(1hr, 1.70V / cell, 25ºC / 77ºF)			
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	Nominal Operating Temp. Range 25 ± 5°C (77 ± 5°F)				
Cycle Use	Maximum charging current 40A				
	Voltage: 13.6V ~ 13.8V at	25°C (77°F)			
	Temp. Compensation: -3n	nV/ºC			
Standby Use	e Maximum charging current 20A				
	14.2V ~ 14.4V at 25° C (77° F)				
	Temp. Compensation: -4n	nV/ºC			
Capacity affected by Temperature	40°C (104°F)	103%			
	25ºC (77ºF)	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.				

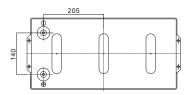
Discharge Constant Current (Amperes) at 77°F (25°C)

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	236.0	204.3	146.1	94.0	44.1	30.0	17.6	9.90
1.75V	260.7	221.3	152.8	97.8	45.5	30.8	17.8	10.0
1.70V	284.9	237.8	159.9	101.5	46.9	31.6	18.1	10.1
1.65V	30.9.4	253.9	167.3	104.9	48.2	32.4	18.3	10.2
1.60V	327.4	265.5	174.2	108.6	49.7	33.3	18.6	10.4

Dimensions and Terminal (Unit: mm (inches))









F10 Terminal

Applications

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

Certifications



Discharge End Voltage vs. Discharge Current

Final discharge voltage V/CELL	1,8	1,75	1.7	1,6	
Discharge current (A)	≤ 0,1CA	0.25 CA \geq I > 0.1 CA	$0.55\text{CA} \ge > 0.25\text{CA}$	> 0.55CA	

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

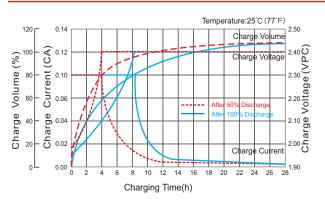
Volts/cell	10min	15min	30min	1h	3h	5h
1.80V	490.2	430.1	314.0	205.6	97.3	66.7
1.75V	532.2	459.3	325.2	212.6	100.0	68.2
1.70V	571.1	486.5	336.8	219.3	102.7	69.7
1.65V	601.8	507.5	348.2	225.6	105.3	71.3
1.60V	632.5	527.5	359.6	231.9	108.3	72.9

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

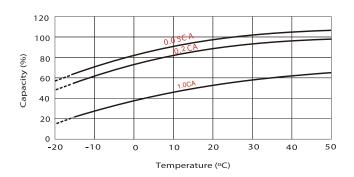
KBG122000 12V 200Ah



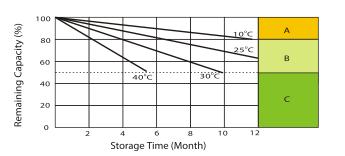
Charging Characteristics (cycle use)



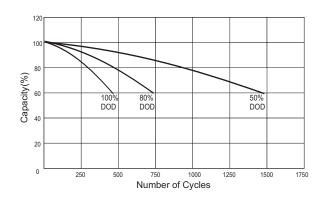
Temperature Effects in Relation to Battery Capacity



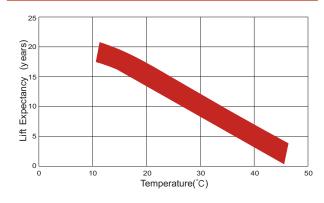
Self Discharge Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life





С

No supplementary charge required (carrry out supplementary charge before use if 100% capacity is required)

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 fo above 20 hours limited current 0.25CA and constant voltage 2.45V / cell. 3. Charged for 8-10 hours ar limited current 0.05 CA.

Supplementary charge often fail to recover the capacity. The battery should never be left standing till this is reached.