KBG121500 12V 150Ah

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

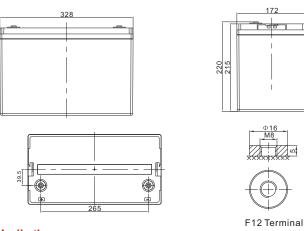
Nominal Voltage	12V			
Design Life	15 years			
Dimensions	Length (mm / inch)	483 / 19.0		
	Width (mm / inch)	170 /6.69		
	Height (mm / inch)	241 / 9.49		
	Total Height (mm / inch)	241 /9.49		
Approx. Weight	(Kg / lbs)	43.0 / 94.79		
Terminal	M8			
Container Material	ABS			
Rated Capacity	13.5Ah / 13.5A	(10hr, 1.70V / cell, 25°C / 77°F)		
	25.7 Ah / 25.7 A	(5hr, 1.70V / cell, 25°C / 77°F)		
	76.1Ah / 76.1A	(1hr, 1.70V / cell, 25°C / 77°F)		
Max. Discharge Current	1500A (5s)			
Internal Resistance	Approx 6.0mΩ			
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	t 20A		
	Voltage: 14.2V ~ 14.4V at 25°C (77°F)			
	Temp. Coefficient: -4mV/°C			
Standby Use	Maximum charging current	t 20A		
	13.6V ~ 13.8V at 25° C (77°	F)		
	Temp. Coefficient: -3mV/°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 S	eries 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	177.0	153.2	109.5	70.5	33.1	22.5	13.2	7.42
1.75V	195.6	166.0	114.6	73.3	34.1	23.1	13.4	7.50
1.70V	213.6	178.3	119.9	76.1	35.2	23.7	13.5	7.59
1.65V	232.1	190.4	125.5	78.7	36.2	24.3	13.8	7.68
1.60V	245.6	199.2	130.7	81.5	37.3	25.0	13.9	7.81



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	l ≤ 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)

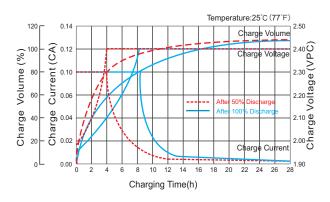
Volts/cell	10min	15min	30min	1h	3h	5h
1.80V	367.6	322.6	235.5	154.2	73.0	50.0
1.75V	399.2	344.5	243.9	159.4	75.0	51.1
1.70V	428.4	364.9	252.6	164.5	77.0	52.3
1.65V	451.4	380.3	261.2	169.2	79.0	53.5
1.60V	474.4	395.7	269.7	173.2	81.0	54.7

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

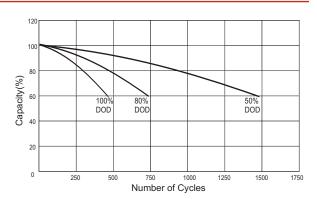
KBG121500 12V 150Ah



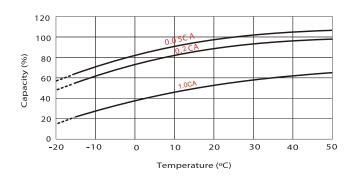
Charging Characteristics (cycle use)



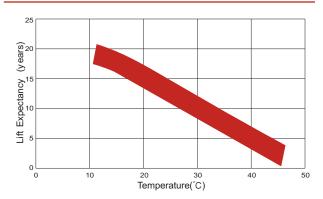
Cycle Life in Relation to Depth of Discharge



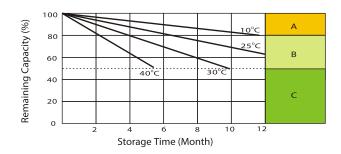
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



- A No supplementary charge required (carrry 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 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.

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



