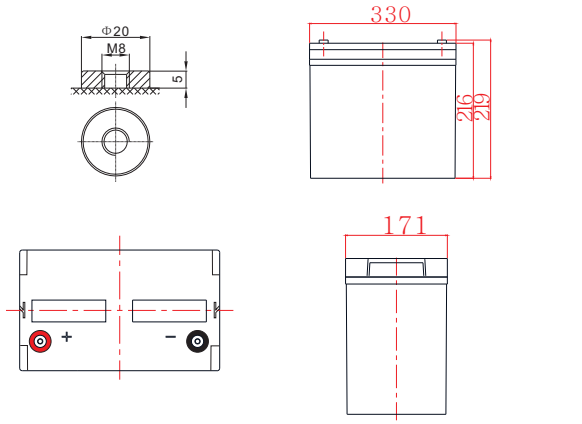
KBG121000 12V 100Ah (C_{10})

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)	330 / 12.99
	Width (mm / inch)	171 / 6.73
	Height (mm / inch)	216 / 8.50
	Total Height (mm / inch)	219 / 8.62
Approx. Weight	(Kg / lbs)	29.5 / 65.0
Terminal	M8	
Container Material	ABS	
Rated Capacity	100Ah / 10.0A	(10hr, 1.75V / cell, 25ºC / 77ºF)
	90.5Ah / 18.1A	(5hr, 1.70V / cell, 25ºC / 77ºF)
	65.1Ah / 65.1A	(1hr, 1.70V / cell, 25ºC / 77ºF)
Max. Discharge Current	1200A (5s)	
Internal Resistance	Approx 5.2mΩ	
Operating Temp. Range	Discharge : -40 ~ 60ºC (-40 ~ 140ºF)	
	Charge : -20 ~ 50ºC (-4 ~ 122ºF)	
	Storage : -20 ~ 50ºC (-4 ~ 122ºF)	
Cycle Use	Maximum charging current 25.0A	
	Voltage: 14.4V ~ 15.0V at 25ºC (77ºF)	
	Temp. Coefficient: -30mV/ºC	
Standby Use	Maximum charging current 25.0A	
	13.5V ~ 13.8V at 25º C (77º F)	
	Temp. Coefficient: -18mV/ºC	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	Fully charged Kaise Gel Series batteries may be stored for up to 6 months at 25ºC (77ºF) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

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 / ISO 14001

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 Current (Amperes) at 77ºF (25ºC)

Volts/cell	15min	30min	1h	2h	3h	5h	10h	20h
1.80V	157	102	62.5	36.1	26.3	17.4	10.0	5.32
1.75V	169	107	64.2	36.8	26.5	17.9	10.0	5.35
1.70V	174	108	65.1	37.4	26.8	18.1	10.1	5.37
1.65V	178	110	65.6	37.6	27.2	18.2	10.2	5.40
1.60V	184	112	66.0	37.8	27.5	18.4	10.3	5.43

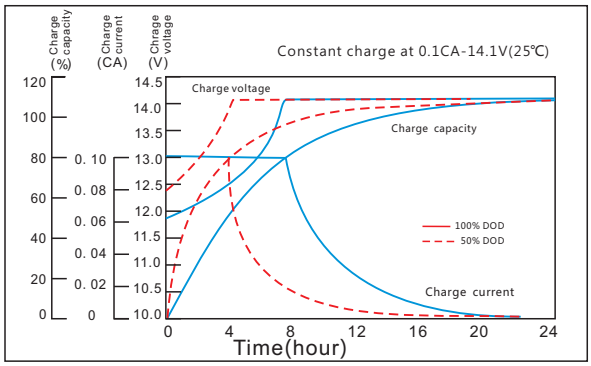
Discharge Constant Power (Watts per cell) at 77ºF (25ºC)

Volts/cell	15min	30min	1h	2h	3h	5h
1.80V	295	194	121	70.5	50.8	33.9
1.75V	312	199	122	70.7	51.0	34.3
1.70V	314	200	123	71.1	51.3	34.5
1.65V	318	200	124	71.4	51.6	34.8
1.60V	323	202	125	71.5	52.2	35.0

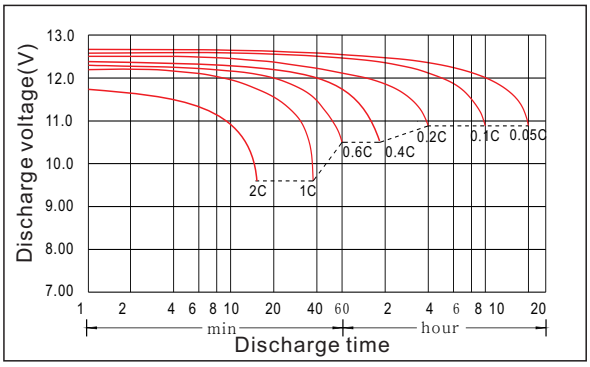
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KBG121000 12V 100Ah (C_{10})

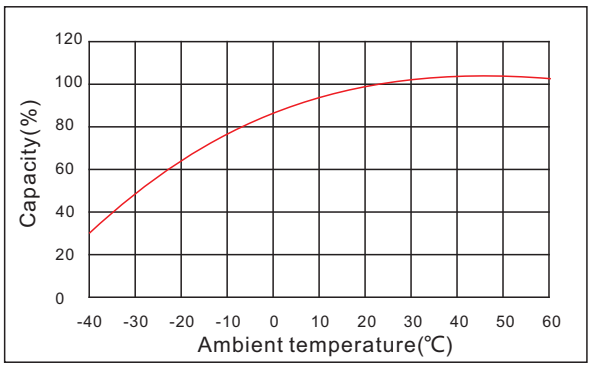
Charging Characteristics (cycle use)



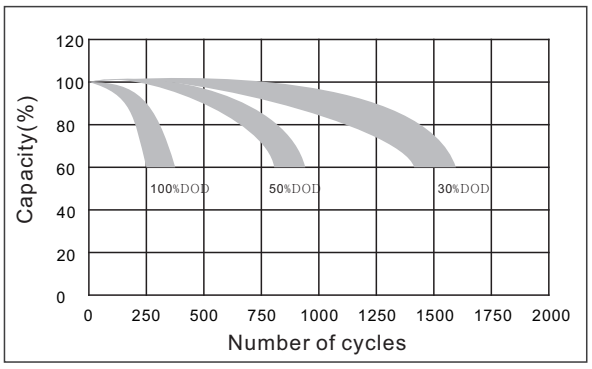
Discharge Characteristics



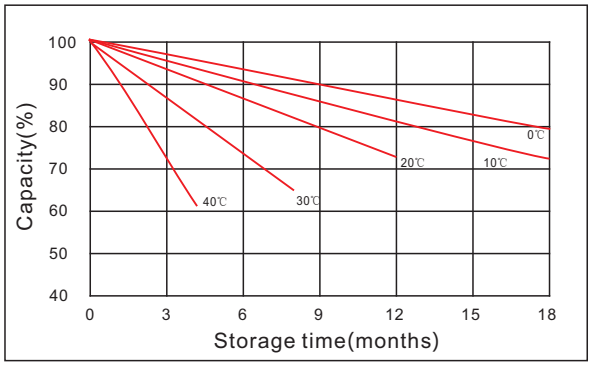
Temperature Effects in Relation to Battery Capacity



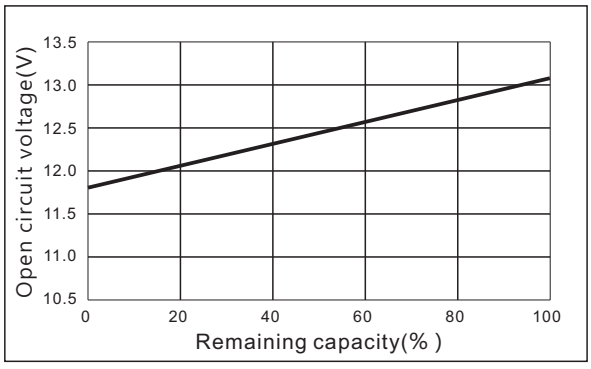
Cycle Life in Relation to Depth of Discharge



Curves of Self-Discharge



Curves of Open Circuit Voltage vs. Capacity



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

2024/VK