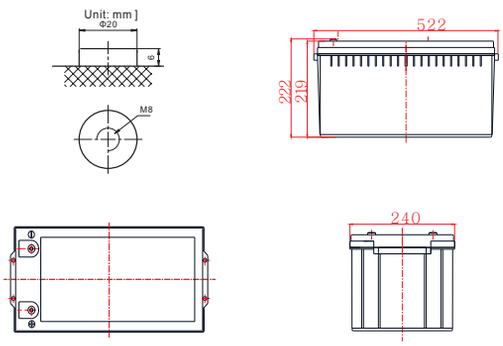
KBG122000 12V 200Ah

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, sruubber, 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±2 / 20.55
	Width(mm / inch)	240±2 / 9.45
	Height(mm / inch)	219±2 / 8.62
	Total Height(mm / inch)	222±2 / 8.74
Appox Weight	(Kg / lbs)	57.0 / 125.6
Terminal	M8	
Container Material	ABS	
Rated Capacity	200.0Ah / 20.0A	(10hr,1.80V/cell,25ºC/77ºF)
	178.5Ah / 35.7A	(5hr,1.75V/cell,25ºC/77ºF)
	159.0Ah / 159.0A	(3hr,1.75V/cell,25ºC/77ºF)
	132.0Ah / 132.0A	(1hr,1.60V/cell,25ºC/77ºF)
Max. Discharge Current	2400A (5s)	
Internal Resistance	Approx 3.2mΩ	
Operating Temp.Range	Discharge : -40~60ºC (-40~140ºF)	
	Charge : -20~50ºC (-4~122ºF)	
	Storage : -20~ 50ºC (-4~122ºF)	
Nominal Operating Temp. Range	25± 3ºC (77±5ºF)	
Charge Current	Max. 50.0A	
Cycle Use	Voltage 14.4V~15.0V at 25º C (77º F)	
	Temp. Coefficient -30mV/ºC	
Standby Use	Voltage 13.5V~13.8V at 25º C (77º F)	
	Temp. Coefficient -18mV/ºC	
Capacity affected by	40º C (104ºF)	103%
	25º C (77ºF)	100%
	0º C (32ºF)	86%
Self Discharge	Kaise Batteries High Rate series batteries may be stored for up to 6 months at 25º C(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 77ºF25ºC)

Volts/cell	15min	30min	1h	2h	3h	5h	10h	20h
1.80V	314	205	125	72.2	52.6	34.8	20.0	10.6
1.75V	337	214	128	73.6	53.0	35.7	20.1	10.7
1.70V	348	216	130	74.7	53.6	36.1	20.3	10.7
1.65V	356	220	131	75.3	54.4	36.5	20.5	10.8
1.60V	367	223	132	75.7	54.9	36.9	20.7	10.9

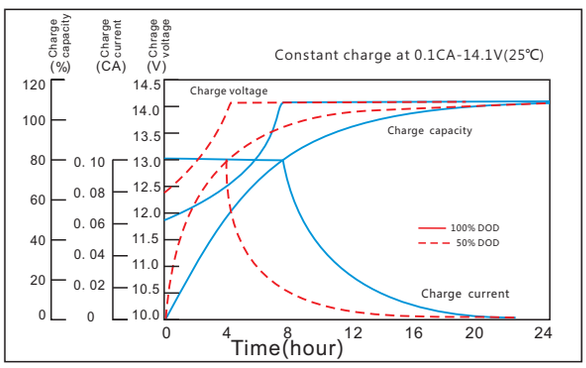
Discharge Constant Power (Watts per cell at 77ºF25ºC)

Volts/cell	15min	30min	1h	2h	3h	5h	10h	20h
1.80V	590	389	242	141	102	67.8	38.2	21.1
1.75V	624	398	244	141	102	68.6	38.6	21.2
1.70V	628	400	246	142	103	69.0	39.0	21.3
1.65V	636	400	248	143	103	69.5	39.4	21.4
1.60V	647	404	250	143	104	69.9	39.8	21.5

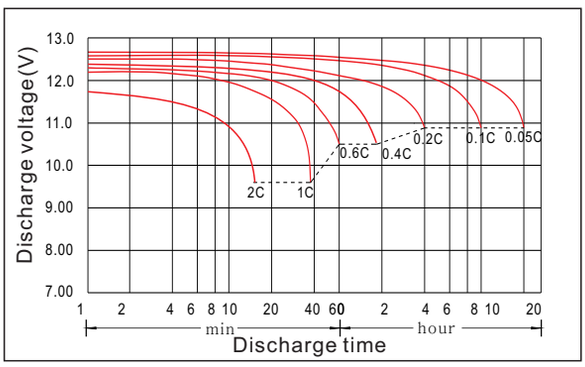
(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KBG122000 12V 200Ah

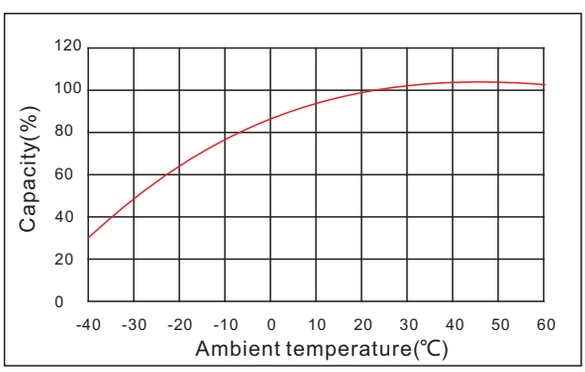
Charging Characteristics



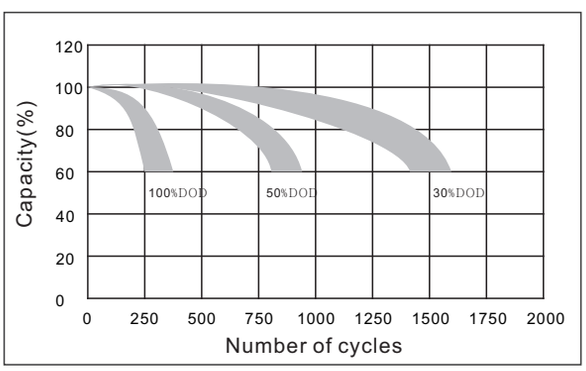
Discharge Characteristics



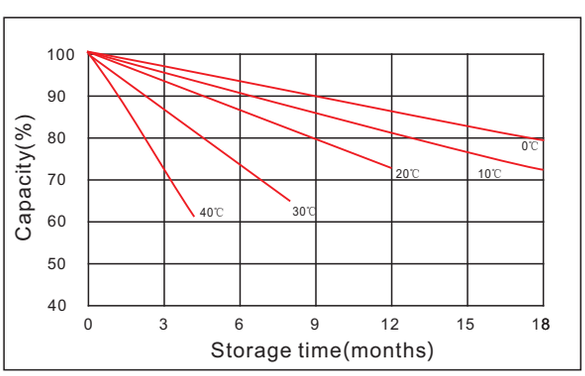
Temperature Effects in Relation to Battery Capacity



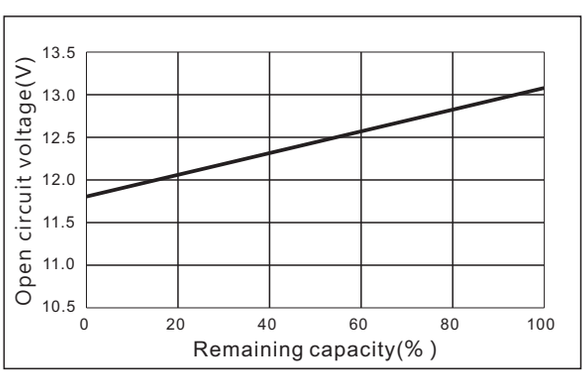
The Effect of Discharge Depth on Cycle Life



Curves of Self-Discharge



Curves of Open Circuit Voltage vs. Capacity



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

2025/V1/K

Contacto
customer.energy@tempelgroup.com
www.tempelgroup.com

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