

KBG121000 12V 100Ah (C₁₀)



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.



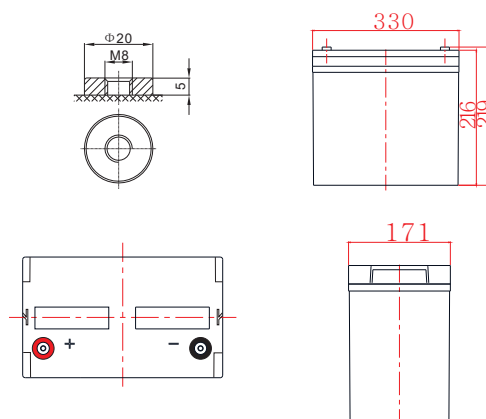
Performance Characteristics

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	100.0Ah / 10.0A	(10hr, 1.80V / cell, 25°C / 77°F)
	92.0Ah / 18.4A	(5hr, 1.70V / cell, 25°C / 77°F)
	66.4Ah / 66.4A	(1hr, 1.70V / cell, 25°C / 77°F)
Max. Discharge Current	1200A (5s)	
Internal Resistance	Approx 5.2mΩ	
Operating Temp. Range	Discharge :	-20 ~ 50°C (-4 ~ 122°F)
	Charge :	-20 ~ 50°C (-4 ~ 122°F)
	Storage :	-20 ~ 50°C (-4 ~ 122°F)
Cycle Use	Maximum charging current 25.0A	
	Voltage: 14.4V ~ 15.0V at 25°C (77°F)	
	Temp. Coefficient: -30mV/°C	
Standby Use	Maximum charging current 25.0A	
	13.5V ~ 13.8V at 25°C (77°F)	
	Temp. Coefficient: -18mV/°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 25°C (77°F)

Volts/cell	15min	30min	1h	2h	3h	5h	10h	20h
1.80V	162	105	63.8	36.8	26.9	17.7	10.0	5.35
1.75V	174	110	65.5	37.5	27.0	18.2	10.1	5.38
1.70V	180	111	66.4	38.1	27.3	18.4	10.2	5.40
1.65V	184	113	66.9	38.4	27.7	18.6	10.3	5.43
1.60V	189	115	67.3	38.6	28.0	18.8	10.4	5.46

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

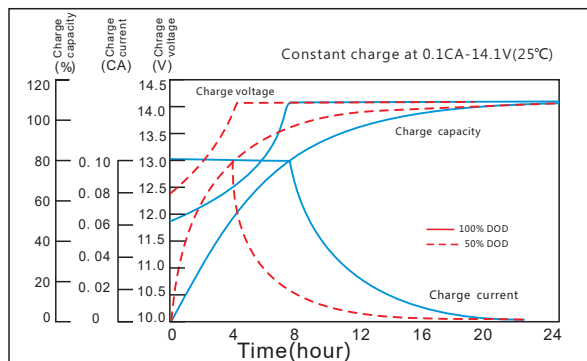
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	$I \leq 0.1CA$	$0.25CA \geq I > 0.1CA$	$0.55CA \geq I > 0.25CA$	$I > 0.55CA$

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

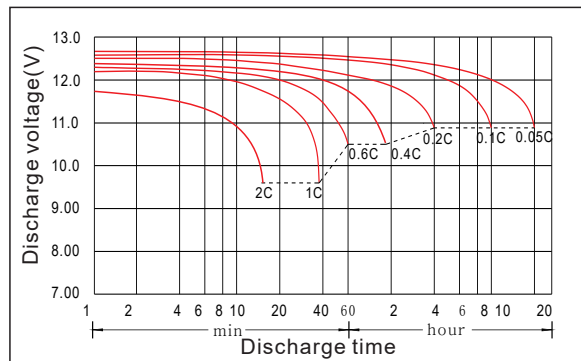
Volts/cell	15min	30min	1h	2h	3h	5h
1.80V	304	201	123	71.9	51.8	34.6
1.75V	322	205	124	72.1	52.0	35.0
1.70V	324	206	125	72.5	52.3	35.2
1.65V	328	206	126	72.8	52.6	35.5
1.60V	333	208	127	73.0	53.3	35.7

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

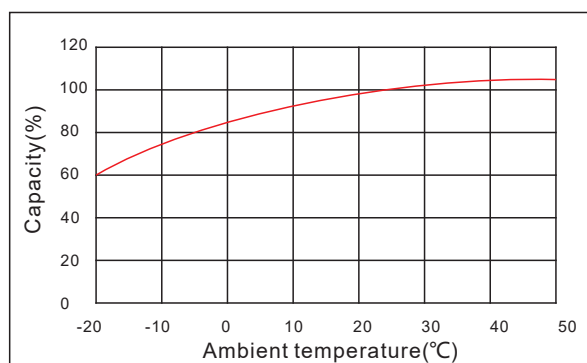
Charging Characteristics (cycle use)



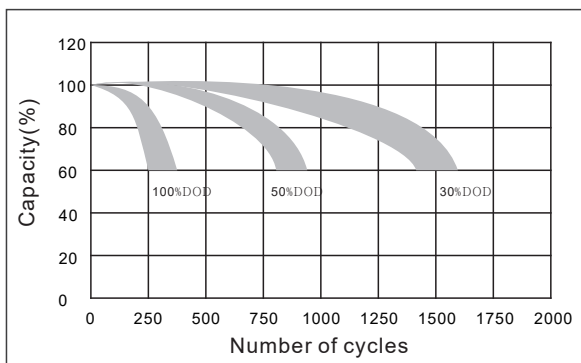
Discharge Characteristics



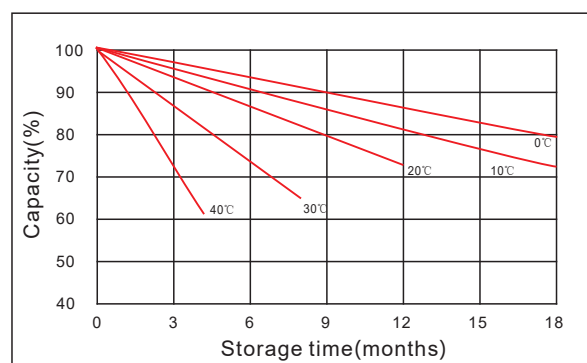
Temperature Effects in Relation to Battery Capacity



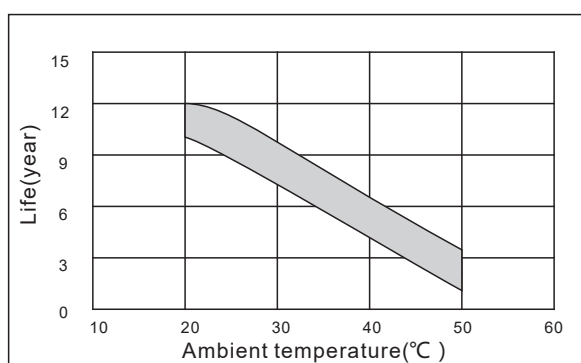
Cycle Life in Relation to Depth of Discharge



Curves of Self-Discharge



The Effect of Temperature on Float Life



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

