KBG12550 12V 55Ah (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.

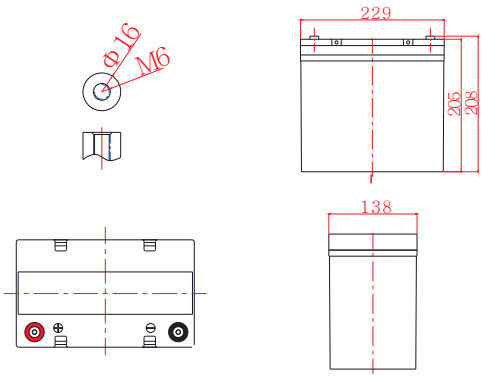
Performance Characteristics

Nominal Voltage	12V	
Design Life	12 years	
Dimensions	Length (mm / inch)	229 / 9.02
	Width (mm / inch)	138 / 5.43
	Height (mm / inch)	205 / 8.07
	Total Height (mm / inch)	208 / 8.19
Approx. Weight	(Kg / lbs)	16.5 / 36.4
Terminal	M6	
Container Material	ABS	
Rated Capacity	55.0Ah / 5.50A	(10hr,1.80V/cell,25ºC/77ºF)
	49.65Ah / 9.93A	(5hr,1.70V/cell,25ºC/77ºF)
	35.8Ah / 35.8A	(1hr,1.70V/cell,25ºC/77ºF)
Max. Discharge Current	660A (5s)	
Internal Resistance	Approx 9.0mΩ	
Operating Temp. Range	Discharge : -40 ~ 60ºC (-40 ~ 140ºF)	
	Charge : -20 ~ 50ºC (-4 ~ 122ºF)	
	Storage : -20 ~ 50ºC (-4 ~ 122ºF)	
Cycle Use	Cycle Use Maximum charging current 13.8A	
	Voltage: 14.4V ~ 15.0V at 25ºC (77º F) Temp.	
	Coefficient:-30mV/ºC	
Standby Use	Maximum charging current 13.8AV	
	Voltage: 13.5V ~ 13.8V at 25ºC (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.	

Discharge Constant Current (Amperes) at 77ºF (25ºC)

Volts/cell	15min	30min	1h	2h	3h	5h	10h	20h
1.80V	86.4	56.3	34.4	19.9	14.5	9.56	5.50	2.94
1.75V	92.7	58.8	35.3	20.2	14.6	9.82	5.53	2.95
1.70V	95.8	59.3	35.8	20.5	14.7	9.93	5.58	2.96
1.65V	97.9	60.4	36.1	20.7	14.9	10.0	5.64	2.98
1.60V	101	61.4	36.3	20.8	15.1	10.1	5.69	3.00

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

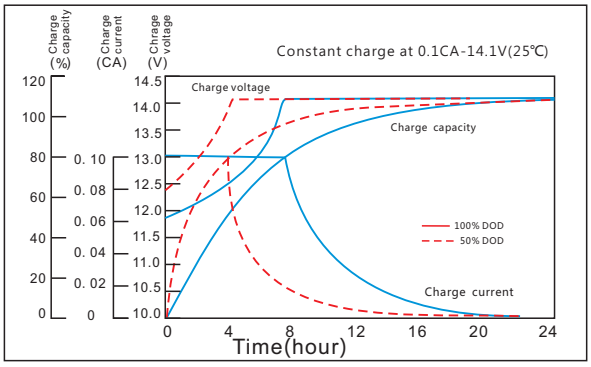
Discharge Constant Power (Watts per cell) at 77ºF (25ºC)

Volts/cell	15min	30min	1h	2h	3h	5h	10h	20h
1.80V	162	107	66.5	38.8	27.9	18.6	10.5	5.82
1.75V	172	110	67.0	38.9	28.0	18.9	10.6	5.85
1.70V	173	110	67.6	39.1	28.2	19.0	10.7	5.87
1.65V	175	110	68.1	39.2	28.4	19.1	10.8	5.90
1.60V	178	111	68.6	39.4	28.7	19.2	10.9	5.93

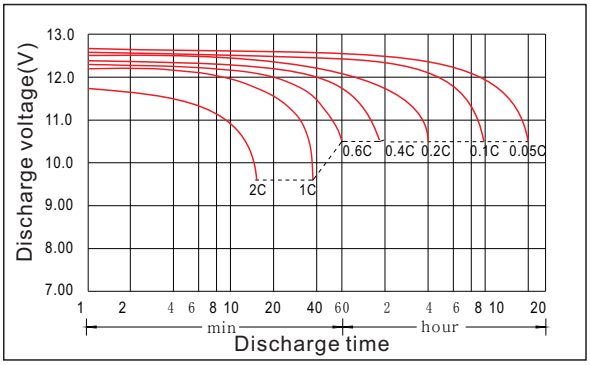
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KBG12550 12V 55Ah (C_{10})

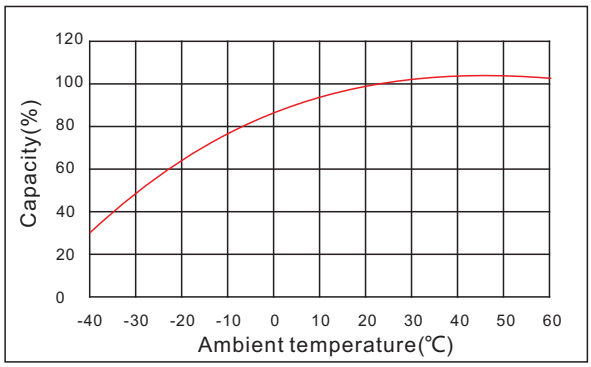
Charging Characteristics



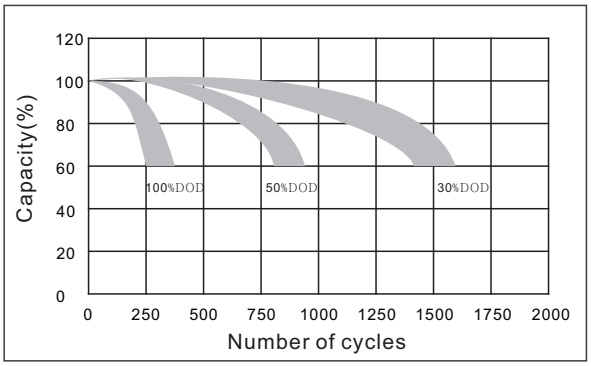
Discharge characteristic



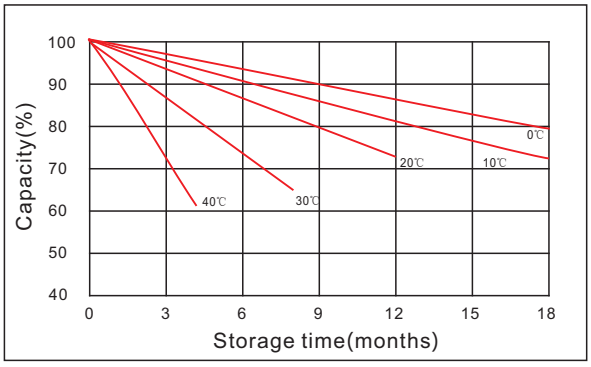
The effect of temperature on capacity



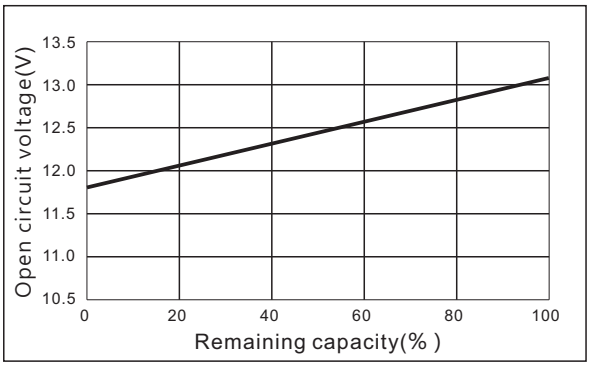
The effect of discharge depth on cycle life



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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