

# KBG121500 12V 150Ah



KAISE series is Superior Cycle VRLA Gel battery. By combining the newly developed nano gel electrolyte and high cyclic paste, KBG series delivers high cycle life, excellent high&low temperature performance, it is highly suited for renewable energy systems, outdoor telecom and other harsh environment require high cycle applications.



## Specifications

Rated Voltage	12V	
Nominal Capacity (25°C)	150Ah (C <sub>10</sub> 1.80V/cell)	
Dimension	Length	483mm (19.0inches)
	Width	170mm (6.69inches)
	Container Height	238.5mm (9.39inches)
	Total Height	238.5mm (9.39inches)
Approx Weight	43.6kg (96.1lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	3000A	
Max. Charging Current (25°C)	0.25C	
Internal Resistance (25°C)	Approx 3.5 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-20 ~ 55°C (-4 ~ 131°F)
	Charge	-20 ~ 40°C (-4 ~ 104°F)
	Storage	-20 ~ 50°C (-4 ~ 122°F)
Nominal Operating Temp. Range	25± 3°C (77± 5°F)	
Charge voltage (25°C)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
	≤3% per month at 25°C (77°F).	
Self Discharge	KBG series batteries may be stored 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.	

## Applications

- Communication power supply
- Engine starting
- Pump systems
- Alarm installations
- Marine and power stations

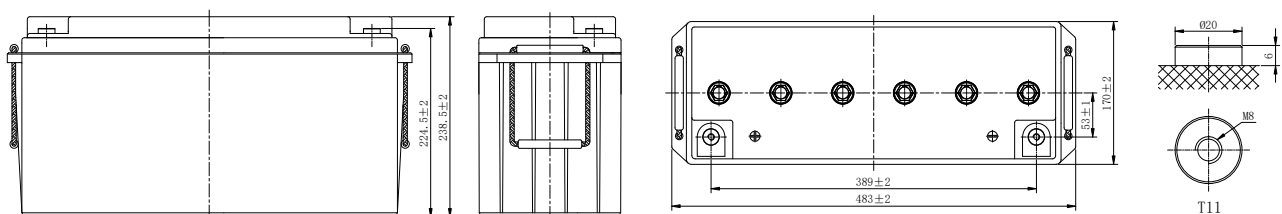
## General Features

- 12 years design life (25°C)
- Proven AGM-GEL technology
- Excellent deep discharge recovery and cyclability
- Very low maintenance: no water addition
- Low self-discharge rate

## Standards

- IEC60896 Certified
- Classified as "Long Life" according to Eurobat
- UL,CE Approved
- Manufactured in Kaise® IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

## Layout



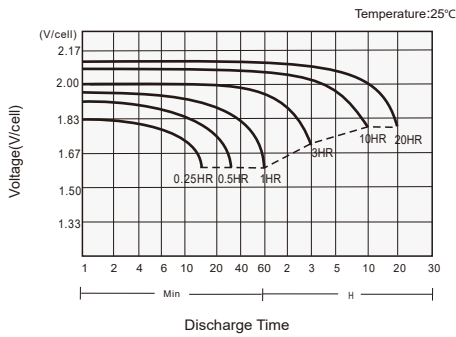
## Constant Current Discharge (Amperes) at 25°C (77°C)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	161.7	135.2	106.9	81.2	67.2	42.7	33.2	27.3	23.2	20.2	16.4	13.9	7.50
1.80V/cell	192.5	157.5	123.0	92.1	74.7	46.4	35.6	29.0	24.9	21.7	17.5	15.0	7.73
1.75V/cell	214.6	173.0	131.1	97.4	79.0	48.6	36.9	30.0	25.5	22.3	17.8	15.2	7.80
1.70V/cell	231.8	183.9	138.3	102.3	82.5	51.0	38.2	30.9	26.2	22.7	18.1	15.2	7.95
1.67V/cell	244.1	193.5	144.8	105.4	85.4	52.4	39.6	31.8	26.8	23.2	18.3	15.4	8.03
1.60V/cell	263.2	207.8	153.9	111.4	89.6	54.3	41.0	32.6	27.3	23.7	18.6	15.6	8.10

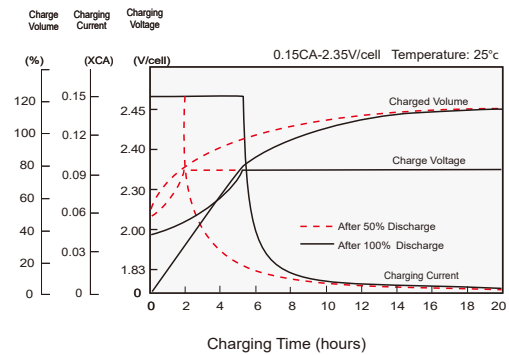
## Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	304.0	256.9	204.8	156.7	130.1	83.2	64.8	53.5	45.6	39.8	32.6	27.7	14.9
1.80V/cell	357.4	295.1	232.8	176.5	144.0	89.9	69.3	56.7	48.8	42.6	34.6	29.7	15.3
1.75V/cell	393.2	320.6	246.0	185.1	151.6	93.9	71.6	58.4	49.8	43.6	35.1	30.0	15.5
1.70V/cell	418.2	337.8	257.6	193.3	157.6	98.2	73.9	60.0	51.0	44.5	35.6	30.1	15.8
1.67V/cell	436.1	352.1	267.3	197.5	162.1	100.3	76.3	61.6	52.0	45.3	36.0	30.4	15.9
1.60V/cell	462.4	373.9	281.7	207.5	169.0	103.5	78.6	62.8	52.9	46.1	36.4	30.8	16.0

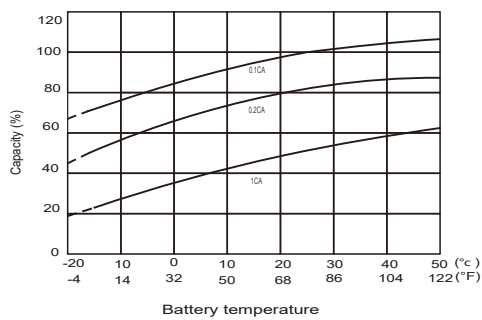
## Discharge Characteristics



## Charging Characteristics



## Effects of Temperature on Capacity



## Self Discharge Characteristics

