KBG122000 12V 200Ah

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)	200Ah	(C_{20}, 1.80V/cell)
Dimension	Length	522mm (20.6inches)
	Width	240mm (9.45inches)
	Container Height	218mm (8.58inches)
	Total Height	224mm (8.82inches)
Approx Weight	62.3kg (137.3lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	3200A	
Max. Charging Current (25°C)	0.25C	
Internal Resistance (25°C)	Approx 4.6 mΩ (Fully charged)	
Operating Temp. Range	Discharge : -20 ～ 60°C (-4 ～ 140°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
Temp. Coefficient	2.23-2.27V/cell	2.35-2.40V/cell
	-3mV/cell/°C	-5mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤2.5% per month at 25°C (77°F). KBG series batteries may be stored up to 9 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Applications

- Telecommunications
- Solar system
- Wind power system
- Engine starting
- Wheelchair, Floor cleaning machines, Golf trolley, Boats

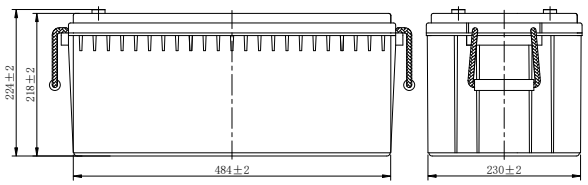
General Features

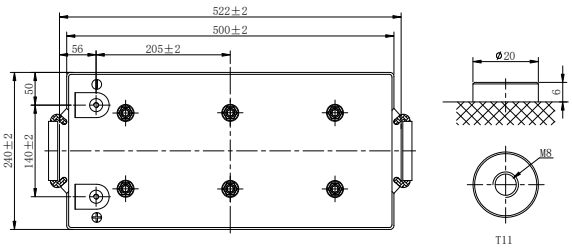
- 12 years design life (25°C)
- Gelled electrolyte for superior thermal management, long float life
- Efficient gas recombination decreases gassing/water and extends battery life
- Robust design - resilient in harsh conditions
- Proof against deep discharge - greater long-term energy delivery and cycle life

Standards

- IEC60896 Certified
- Classified as"Long Life" according to Eurobat
- UL,CE Approved
- Manufactured in Kaise®IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

Layout





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

F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	250.0	216.8	170.5	154.2	112.8	89.3	69.2	55.2	43.8	35.6	31.0	27.1	22.0	18.6	9.62
1.80V/cell	283.8	245.7	192.7	166.7	119.5	98.8	73.5	60.8	48.1	38.7	32.6	28.7	22.9	19.0	10.0
1.75V/cell	292.7	255.6	201.0	167.9	121.4	108.7	78.8	63.9	49.4	39.3	33.1	29.2	23.1	19.4	10.3
1.70V/cell	307.8	266.0	208.1	171.3	123.8	110.8	80.4	65.2	50.1	39.9	33.6	29.6	23.3	19.6	10.4
1.67V/cell	338.6	290.7	226.7	177.3	128.1	116.5	84.0	67.8	51.6	40.6	34.6	30.1	23.7	19.8	10.6
1.60V/cell	350.2	299.7	232.5	179.9	130.0	120.3	86.3	69.3	52.3	41.3	35.3	30.6	23.9	20.0	10.8

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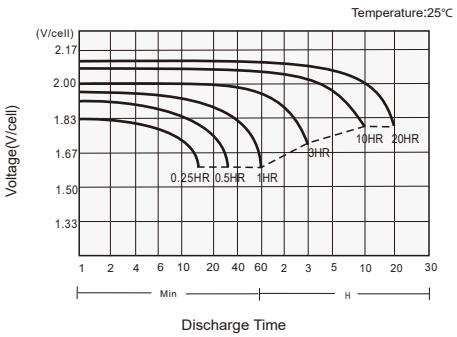
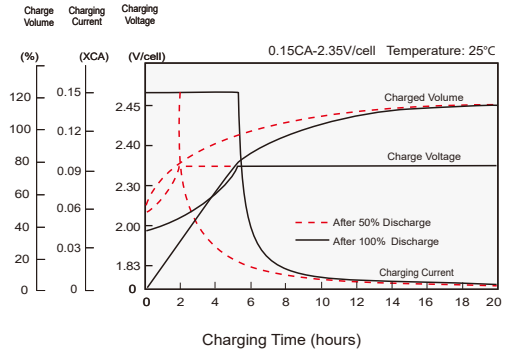
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	470.4	410.5	324.3	294.7	216.8	173.6	134.8	107.9	86.0	70.0	61.0	53.5	43.5	36.9	19.2
1.80V/cell	526.2	459.2	362.7	315.5	228.2	190.7	142.4	118.2	94.0	75.8	64.1	56.4	45.2	37.5	19.9
1.75V/cell	540.3	475.3	376.6	318.3	231.8	208.9	152.3	124.1	96.1	76.7	64.9	57.4	45.5	38.3	20.5
1.70V/cell	561.6	490.0	387.1	322.3	235.1	212.3	154.9	126.2	97.3	77.8	65.8	58.1	45.8	38.6	20.6
1.67V/cell	600.0	523.6	413.6	328.4	240.3	220.7	160.2	130.0	99.6	78.8	67.3	58.7	46.5	38.9	21.0
1.60V/cell	608.4	530.9	419.4	329.8	241.5	225.7	163.1	131.8	100.3	79.7	68.5	59.4	46.7	39.2	21.3

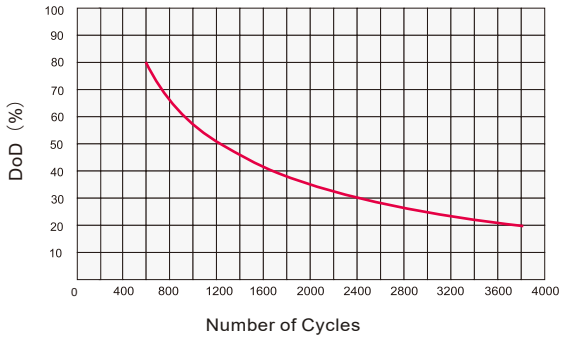
Discharge Characteristics



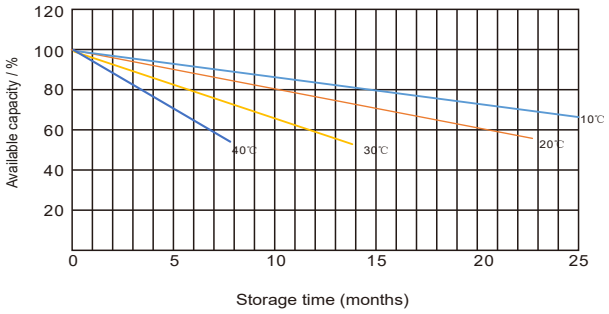
Charging Characteristics



Cycle Life in Relation to D o D



Self Discharge Characteristics



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