KBG122500 12V 250Ah

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	250Ah	(C_{20}, 1.75V/cell)
Dimension	Length Width Container Height Total Height	522± 3mm (20.6 inches) 268± 3mm (10.6 inches) 220± 3mm (8.66 inches) 226± 3mm (8.90 inches)
Approx Weight	75.5 Kg (166.4 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	269.0 Ah 265.7 Ah 250.0 Ah 228.0 Ah 150.3 Ah	(100hr,2.69A,1.80V/cell) (72hr,3.69A,1.80V/cell) (20hr,12.5A,1.75V/cell) (10hr,22.8A,1.80V/cell) (1hr,150.3A,1.75V/cell)
Max. Discharge Current	2280A (5s)	
Internal Resistance (25°C)	Approx 2.9mΩ	
Operating Temp. Range	Discharge : -20 ~ 55°C (-4 ~ 131°F) Charge : 0 ~ 40°C (32 ~ 104°F) Storage : -20 ~ 50°C (-4 ~ 122°F)	
Nominal Operating Temp. Range	25± 3°C (77± 5°F)	
Cycle Use	Initial Charging Current less than 57.0A.Voltage 14.1V~14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 57.0A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Effect of temp. to Capacity	40°C (104°F) 25°C (77°F) 0°C (32°F)	103% 100% 86%

Applications

- Solar energy (wind energy) household system /communication / communication base station;
- Movable energy storage system;
- Solar traffic lights;
- Solar, wind and solar power generation;
- Emergency lighting system.

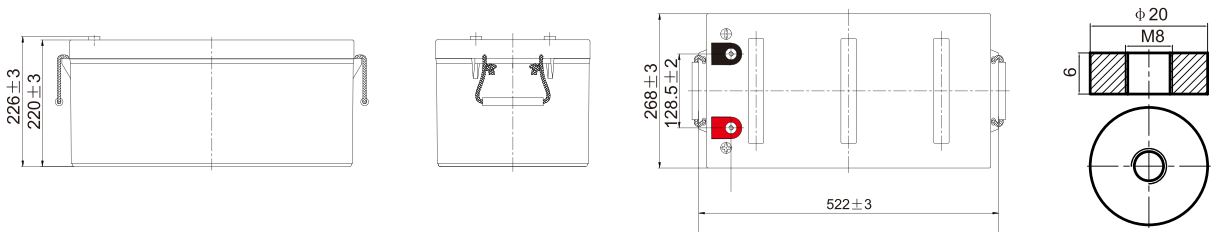
General Features

- Adopted advantage AGM-GEL technology
- Operation temperature -20 ~ 55°C
- ≤3% Self discharge per month
- Fast recharge

Standards

- IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- Manufactured in Kaise® IATF1694 ISO 9001, ISO 14001 and ISO 4500 certified production facilities

Layout



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

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h
1.90V/cell	110.6	69.8	53.3	43.6	36.8	31.6	24.6	20.3	10.9	4.84	3.29	2.38
1.85V/cell	132.3	78.1	58.5	47.5	40.0	34.5	26.9	22.1	11.9	5.23	3.56	2.60
1.80V/cell	143.0	82.4	61.3	49.3	41.4	35.5	27.8	22.8	12.2	5.39	3.69	2.69
1.75V/cell	150.3	86.0	63.3	50.8	42.3	36.3	28.3	23.3	12.5	5.48	3.74	2.74

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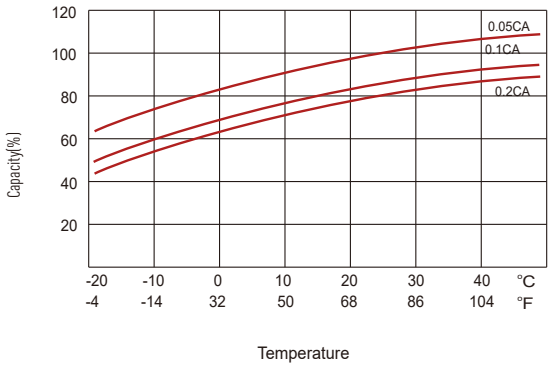
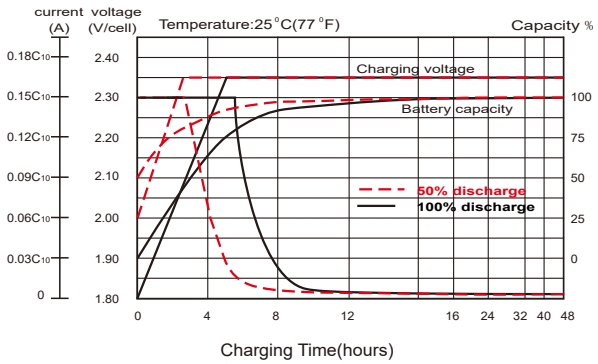
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h
1.90V/cell	216.6	137.5	105.9	86.9	73.8	63.5	49.4	40.5	21.6	9.68	6.56	4.75
1.85V/cell	256.4	152.6	115.1	93.9	79.6	68.5	53.5	44.1	23.8	10.5	7.14	5.23
1.80V/cell	274.5	159.6	120.0	94.4	81.9	70.4	55.1	45.3	24.4	10.8	7.36	5.38
1.75V/cell	287.5	166.0	123.5	99.4	83.3	71.6	55.9	46.0	24.9	11.0	7.48	5.48

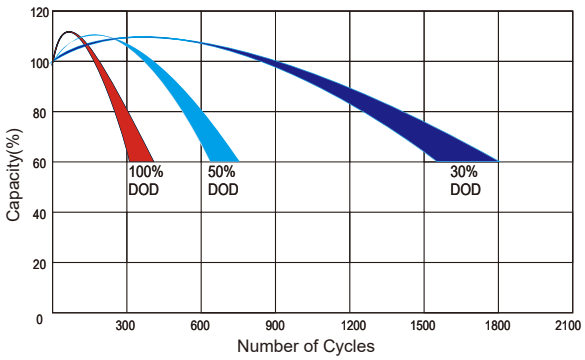
Temperature Effects in Relation to Battery Capacity



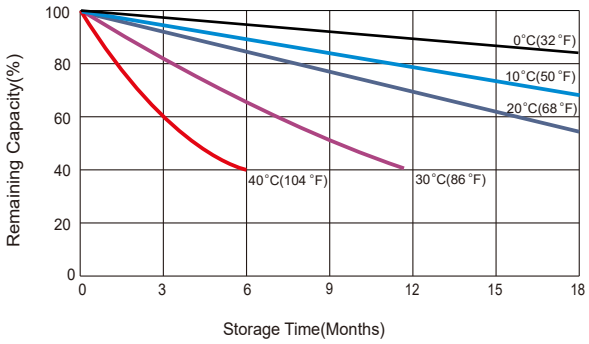
Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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