KBG12750 12V 75Ah

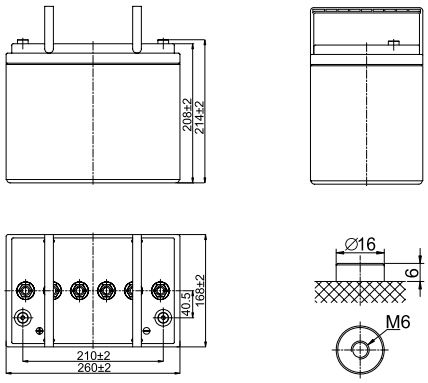
KAISE series is Superior Cycle VRLA Gel battery. By combining the newly developed nano gel electrolyte and high cyclic paste, KBG series delivers high cycle life, excellent high&low temperature performance, it is highly suited for renewable energy systems, outdoor telecom and other harsh environment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



Technical Specifications

Rated Voltage	12V	
Nominal Capacity	75Ah	(C_{10},1.80V/cell)
Dimension	Length	260±2mm (10.2 inches)
	Width	168±2mm (6.61 inches)
	Container Height	208±2mm (8.19 inches)
	Total Height	214±2mm (8.43 inches)
Approx Weight	22.5 Kg (49.6 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	77.2 Ah	(20hr,3.86A,1.80V/cell)
	75.0 Ah	(10hr,7.50A,1.80V/cell)
	64.0 Ah	(5hr,12.8A,1.75V/cell)
	55.5 Ah	(3hr,18.5A,1.75V/cell)
	42.7 Ah	(1hr,42.7A,1.65V/cell)
Max. Discharge Current	750A (5s)	
Internal Resistance (25℃)	Approx 6.6mΩ	
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)	
Cycle Use	Initial Charging Current less than 18.8A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 18.8A. Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	LPGS 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.	

Battery Dimensions



Constant Current Discharge Characteristics: Amps (25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	120.9	95.1	80.8	67.6	53.4	40.6	33.6	21.3	16.6	13.6	11.6	10.1	8.21	6.96	3.75
1.80V/cell	159.9	119.7	96.3	78.8	61.5	46.1	37.4	23.2	17.8	14.5	12.5	10.8	8.76	7.50	3.86
1.75V/cell	184.0	134.2	107.3	86.5	65.5	48.7	39.5	24.3	18.5	15.0	12.8	11.1	8.91	7.58	3.90
1.70V/cell	205.1	148.0	115.9	92.0	69.1	51.1	41.2	25.5	19.1	15.5	13.1	11.4	9.03	7.61	3.98
1.65V/cell	223.9	158.2	122.1	96.7	72.4	52.7	42.7	26.2	19.8	15.9	13.4	11.6	9.17	7.69	4.01
1.60V/cell	249.0	173.2	131.6	103.9	77.0	55.7	44.8	27.2	20.5	16.3	13.7	11.9	9.28	7.82	4.05

Constant Power Discharge Characteristics: W/cell (25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	222.8	177.0	152.0	128.4	102.4	78.4	65.1	41.6	32.4	26.7	22.8	19.9	16.3	13.8	7.46
1.80V/cell	291.8	220.4	178.7	147.5	116.4	88.3	72.0	45.0	34.7	28.3	24.4	21.3	17.3	14.9	7.67
1.75V/cell	328.4	243.0	196.6	160.3	123.0	92.5	75.8	46.9	35.8	29.2	24.9	21.8	17.6	15.0	7.73
1.70V/cell	355.1	261.4	209.1	168.9	128.8	96.6	78.8	49.1	36.9	30.0	25.5	22.2	17.8	15.1	7.88
1.65V/cell	381.6	276.3	218.1	176.0	133.7	98.7	81.1	50.1	38.2	30.8	26.0	22.7	18.0	15.2	7.94
1.60V/cell	414.5	295.5	231.2	187.0	140.9	103.7	84.5	51.7	39.3	31.4	26.4	23.1	18.2	15.4	8.00

KBG12750 12V 75Ah

Kaise®

Applications

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

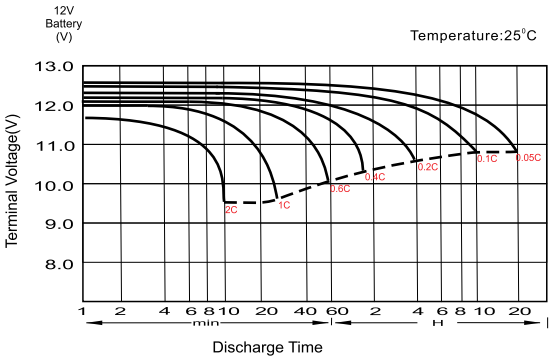
General Features

- Adopted advantage AGM-GEL technology
- Operation temperature −20~55℃
- ⩽3% Self discharge @25℃

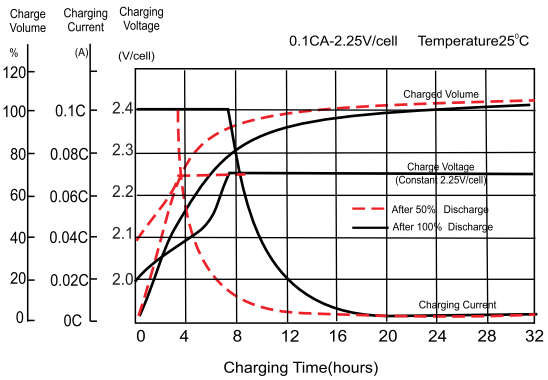
Standards

- IEC 60896 Certified
- Classified as “Long Life” according to Eurobat
- UL Certified, CE Certified
- Manufactured in Leoch® IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

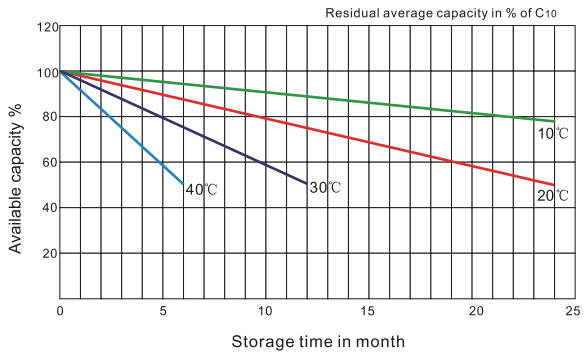
Discharge Characteristics



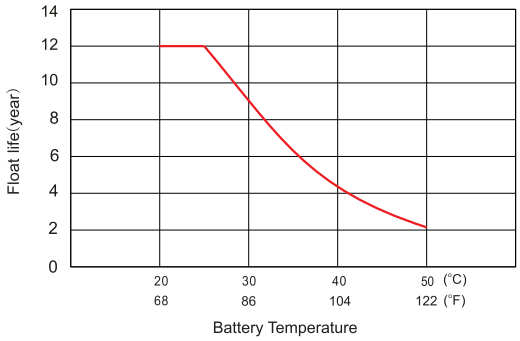
Float Charging Characteristics



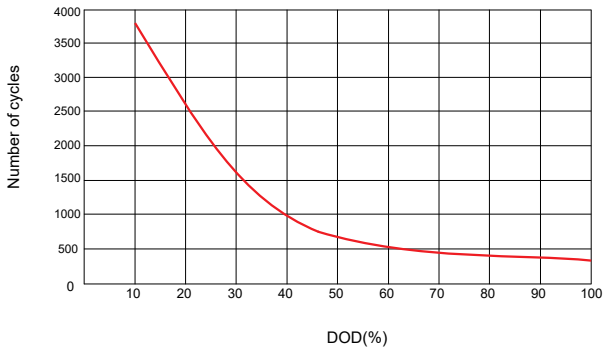
General Relation of Capacity VS. Storage Time



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



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