KBGS122500 12V 250Ah

KAISE series is Superior Cycle VRLA Gel battery. By combining the newly developed nano gel electrolyte and high cyclic paste, KBGS 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.

12 V voltage | 250Ah capacity | GEL tech | 12 years design life





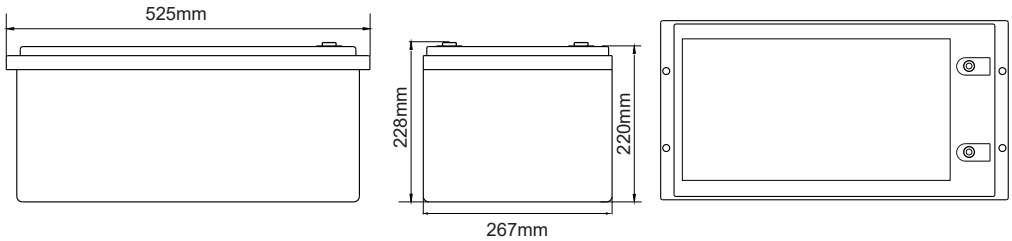
Technical Specifications

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (25 oC)	12 Years
Nominal Capacity (25 oC)	250 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L525mm x W267mm x H228mm
Approx. Weight	68 kg (149.9 lbs)
Terminal Type	F-M8 or cable (torque:10~12N.m for F-M8)
Internal Resistance	< 0.0026 Ohm (fully charged @ 20°C)
Max. Charge Current	62.5A
Max. Discharge Current (5S)	1800 A
Short Circuit Current	4600 A
Self Discharge	Approx. 2.5% per month @ 20°C
Ambient Temperature	Discharge: -40~60°C Charge: -20~55°C Storage: -25~45°C
Float Charge Voltage	13.5-13.62V/block @25 C (-3mV/ cell/ C)
Equalize and cycle Use Charge Voltage	14.1-14.4V/block @25 C
Container Material	ABS (UL94-V0 optional)

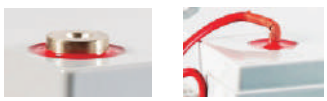
Complied standards

- IEC 60896-21/22
- GB/T19638
- IEC 61427
- JIS C8704
- BS6290 part 4

Battery Dimensions



TERMINAL(optional)



Screw F-M8 or Cable

Constant Current Discharge Characteristics: Amps (25°C)

F.V/T ime	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	254	159	95.2	69.2	55.2	46.0	31.3	25.9	13.6
1.75V	245	156	93.5	68.1	54.6	45.4	30.9	25.5	13.4
1.80V	234	151	91.5	66.8	53.3	44.4	30.2	25.0	13.1
1.85V	221	144	88.0	64.6	51.8	43.3	29.5	24.4	12.8

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

F.V/T ime	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	475	300	181	132	105	88.9	61.0	50.6	26.9
1.75V	463	297	180	131	104	88.5	60.6	50.3	26.5
1.80V	446	289	177	130	102	87.1	59.7	49.7	26.2
1.85V	425	280	172	127	100	85.7	58.8	48.7	25.8

Parameters for Solar & Wind Applications

Long time discharge capacity for Solar & Wind applications

Capacity	C_{24} (Ah)	C_{48} (Ah)	C_{72} (Ah)	C_{100} (Ah)	C_{120} (Ah)
VHR12SCG250	268	283	290	303	313
Final Voltage			1.85V		

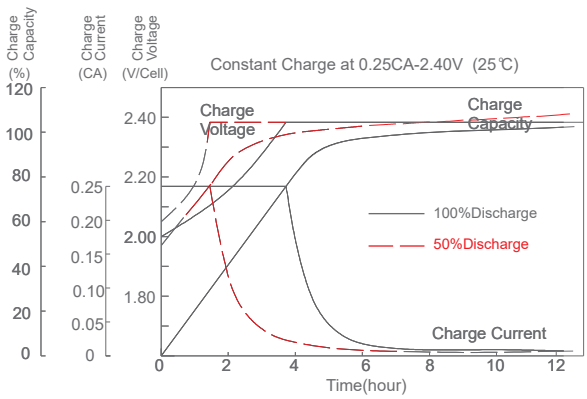
Solar & Wind applications parameters settings

Over voltage disconnect:	2.45±0.01V/cell @ 25°C
Regulation/equalize voltage:	2.40±0.01V/cell @ 25°C
Array roconnection voltage:	2.25±0.005V/cell @ 25°C
Float voltage setting:	2.27±0.005V/cell @ 25°C
Low voltage alarm voltage:	1.95±0.005V/cell @ 25°C
Low voltage disconnect:	1.90±0.005V/cell @ 25°C
Load reconnect voltage:	2.09±0.01V/cell @ 25°C
Temp. compensate coefficienty:	-5mV/cell/°C

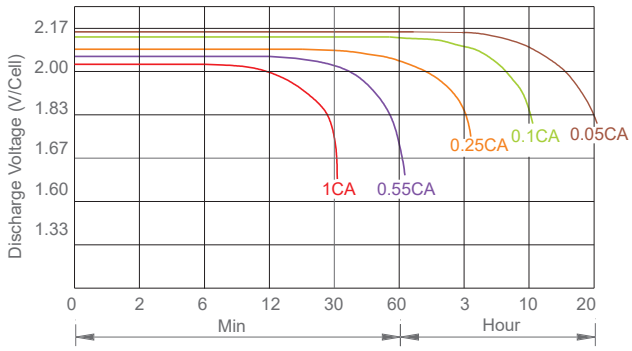
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Kaise®

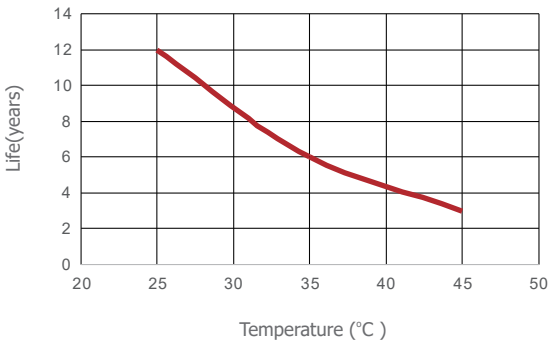
Charge Characteristic



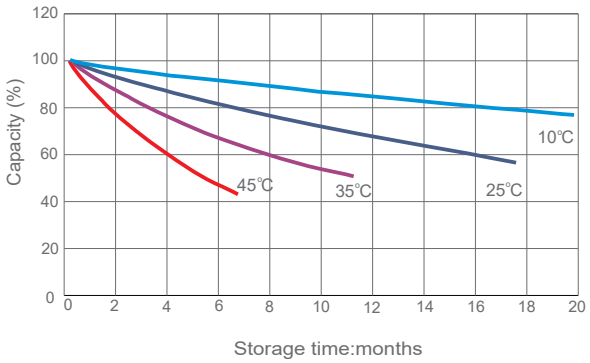
Discharge Characteristic (25°C)



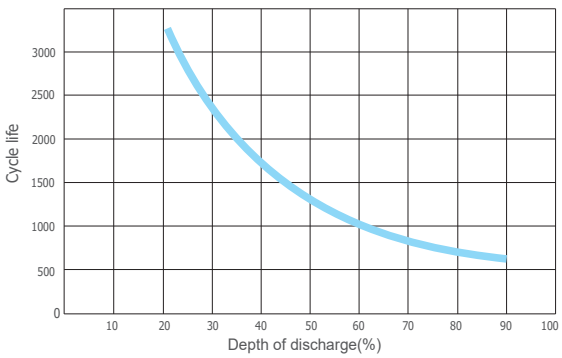
Temperature vs Float Life



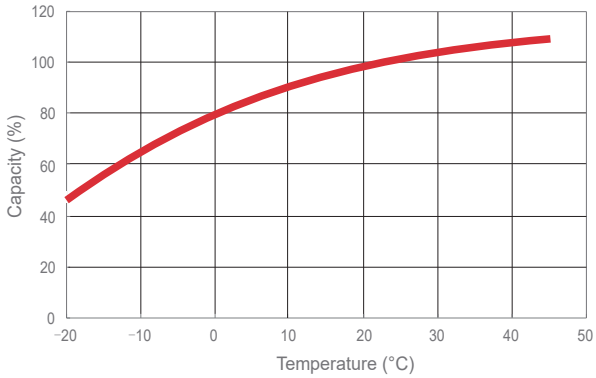
Self discharge characteristics



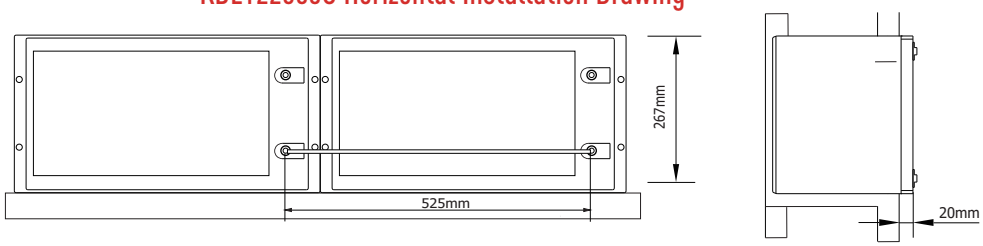
Float voltage vs Float life



Capacity vs Temperature



KBL122500G Horizontal Installation Drawing



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