

KB2200 2V 200Ah

The Kaise Ultra Long Life series of VRLA batteries is known for having the most reliable and highest quality of the entire industry. Built with AGM technology, these batteries reach a service life of 20 years.



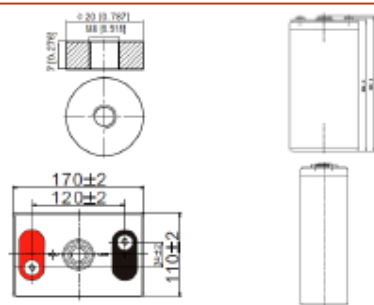
Performance Characteristics

Nominal Voltage	2V	
Dimensions	Length (mm / inch)	170 / 6.69
	Width (mm / inch)	110 / 4.33
	Height (mm / inch)	328 / 12.91
	Total Height (mm / inch)	337 / 13.27
Approx. Weight	13.7 / 30.21	
Design Life	8 - 12 years	
Terminal	MB	
Container Material	ABS	
Rated Capacity	213.4Ah / 106.65 A	(20hr, 1.8V/cell, 25°C / 77°F)
	200.0Ah / 20.00 A	(10hr, 1.75V/cell, 25°C / 77°F)
	172.0Ah / 34.4 A	(5hr, 1.75V/cell, 25°C / 77°F)
	149.7Ah / 49.9 A	(3hr, 1.75V/cell, 25°C / 77°F)
	117.3Ah / 117.3 A	(1hr, 1.67V/cell, 25°C / 77°F)
Max. Discharge Current	1400A (1s)	
Internal Resistance	Approx 1.2mΩ	
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 40.0A	
	Voltage: 14.4V - 15.0V at 25°C (77°F)	
	Temp. Coefficient: -5mV/°C	
Standby Use	Initial Charging Current less than 40.0A	
	13.5V - 13.8V at 25°C (77°F)	
	Temp. Coefficient: -3mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Fully charged Kaise Solar Series batteries may be stored for up to 6 months at 25°C (77°F) and then a refreshing charge is required. For higher temperatures the time interval will be shorter.	

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

Voltage/cell	20min	30min	45min	1h	5h	10h	20h
1.8V	199.8	157.8	115.7	100.0	33.1	19.6	18.67
1.75V	224.4	168.0	124.3	106.8	34.4	20.8	18.88
1.70V	241.8	180.0	132.0	113.7	35.4	20.5	11.83
1.65V	251.4	187.2	136.8	117.3	36.2	20.7	11.13
1.60V	272.4	200.0	146.9	124.6	37.3	21.1	11.29

Dimensions and Terminal (Unit: mm (inches))



Applications

Renewable Energy
Alarm systems
Electric Test Equipment
Emergency lighting systems
Marine equipment
Telecommunications systems

Certifications

ISO 9001:2008 ISO 14001:2008



Discharge Current vs. Discharge Voltage

Final discharge voltage/VCELL	1.8	1.75	1.7	1.6
Discharge current (A)	1 ≤ 0.10A	0.250A ≥ 1 > 0.10A	0.550A ≥ 1 > 0.250A	1 > 0.550A

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

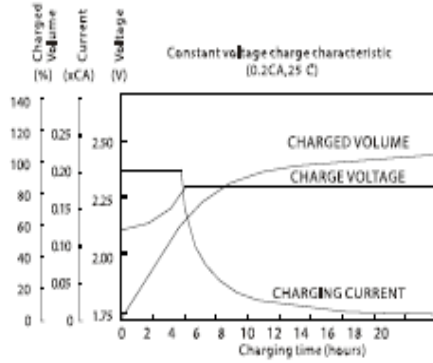
Voltage/cell	15min	30min	45min	1h	5h	10h	20h
1.8V	374.4	288.4	219.6	192.2	64.7	38.7	21.1
1.75V	415.8	314.7	234.7	204.2	66.8	39.5	21.5
1.70V	443.7	334.8	248.4	215.6	68.7	40.4	21.8
1.65V	465.5	343.5	256.1	221.7	69.9	40.8	21.9
1.60V	488.1	364.6	272.6	234.2	71.9	41.5	22.2

[Note] The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

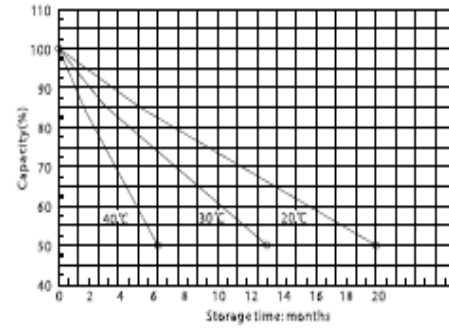
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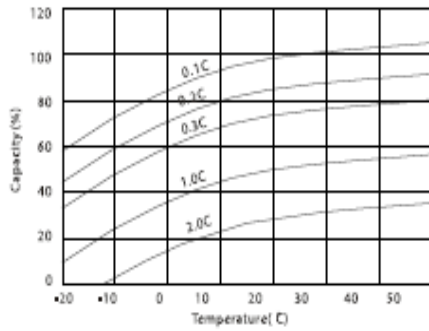
Charging Characteristic (cycle use)



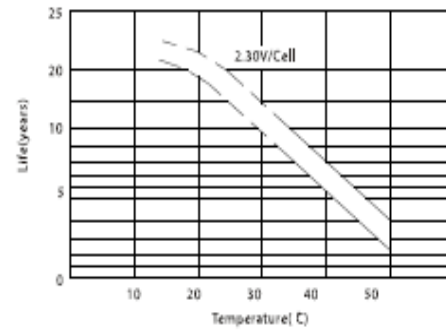
Self Discharge Characteristics



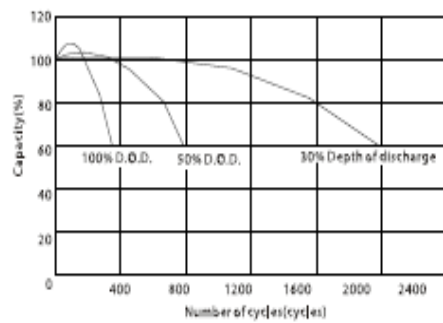
Temperature Effects in Relation to Battery Capacity



Temperature Effects on Float Life



Cycle Service Life in Relation to Depth of Discharge



IMPORTANT NOTE: The specifications presented herein are subject to revision without notice.