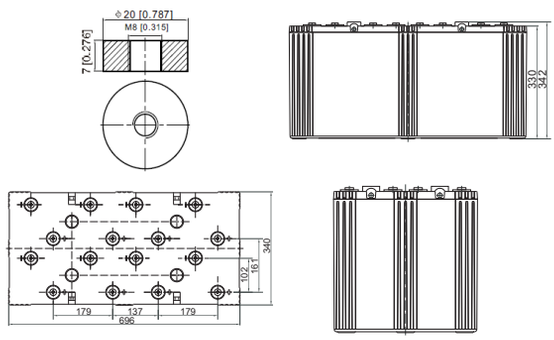
KB23000 2V 3000Ah

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)	696 / 27.4
	Width (mm / inch)	340 / 13.4
	Height (mm / inch)	330 / 13.0
	Total Height (mm / inch)	342 / 13.5
Approx. Weight	(Kg / lbs)	159.0 / 350.5
Design Life	20 years	
Terminal	M8	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.	
Rated Capacity	3000.0Ah / 300.0 A	(10hr, 1.80V/cell, 25ºC / 77ºF)
	2617.5Ah / 523.5 A	(5hr, 1.75V/cell, 25ºC / 77ºF)
	2321.7Ah / 773.9 A	(3hr, 1.75V/cell, 25ºC / 77ºF)
	1770.0Ah / 1770.0A	(1hr, 1.65V/cell, 25ºC / 77ºF)
Max. Discharge Current	8000A (5s)	
Internal Resistance	≤0.30mΩ	
Operating Temp. Range	Discharge : -20 ~ 60ºC Charge : -0 ~ 50ºC Storage : -20 ~ 60ºC	
Cycle Use	Initial Charging Current less than 600A Voltage: 2.43V ~ 2.47V at 25ºC (77ºF) Temp. Coefficient: -4mV/ºC/Cell	
Standby Use	Initial Charging Current less than 600A Voltage: 2.27V~ 2.30V at 25ºC (77ºF) Temp. Coefficient: -3mV/ºC/Cell	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	Fully charged Kaise Solar Series batteries may be stored for up to 6 months at 25ºC (77ºF) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Dimensions and Terminal (Unit: mm (inches))



Applications

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

Certifications

ISO 9001 / ISO 14001

Discharge Current vs. Discharge Voltage

Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	I ≤ 0.1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA

Constant Current Discharge (Amperes) at 25ºC (77ºF)

Volts/cell	30min	1h	2h	3h	5h	8h	10h
1.80V	2457	1587	983.3	750.0	510.0	358.9	300.0
1.75V	2571	1650	1020	773.9	523.5	365.2	303.9
1.70V	2690	1713	1057	797.8	537.0	370.3	307.9
1.65V	2814	1770	1093	820.0	551.3	376.1	312.6
1.60V	2901	1833	1129	846.1	566.0	380.4	316.5

Constant Power Discharge (Watts per cell) at 25ºC (77ºF)

Volts/cell	30min	1h	2h	3h	5h	8h	10h
1.80V	4648	3054	1901	1457	997.0	707.1	592.8
1.75V	4815	3157	1962	1497	1020	717.1	599.7
1.70V	4986	3257	2024	1537	1043	726.3	606.9
1.65V	5165	3346	2081	1573	1067	736.1	615.4
1.60V	5270	3445	2139	1616	1091	742.9	622.1

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

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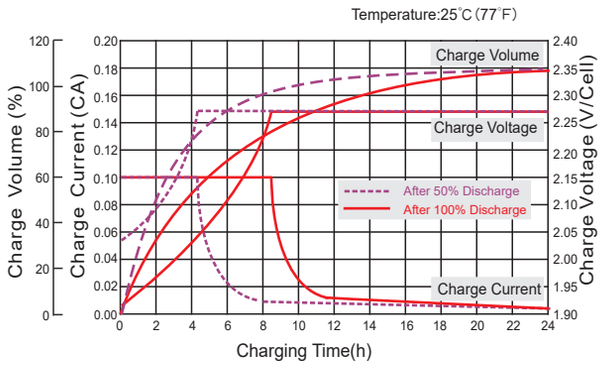
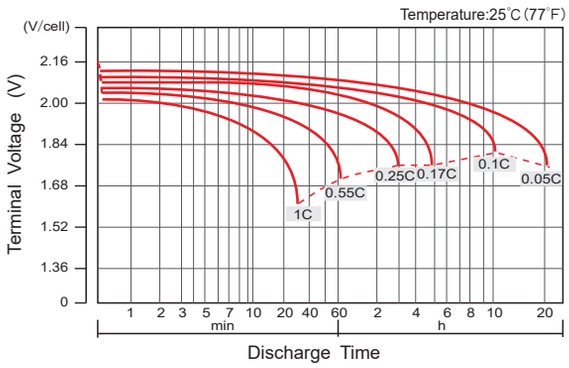
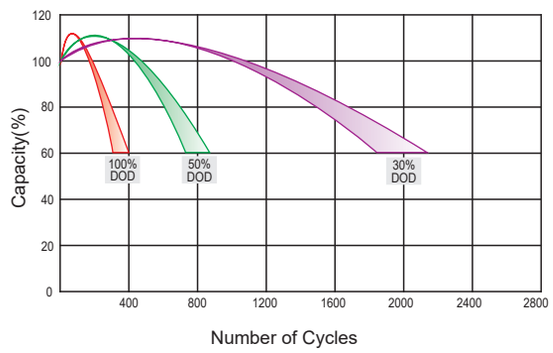
Charging Characteristic



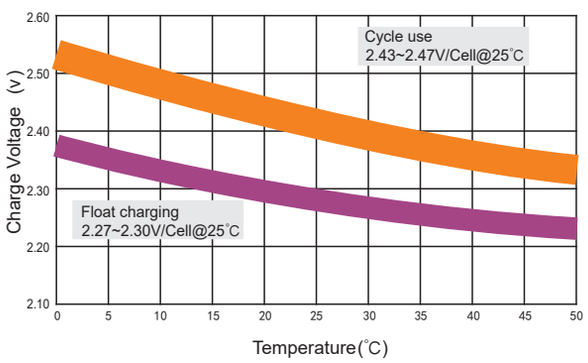
Discharge Characteristics



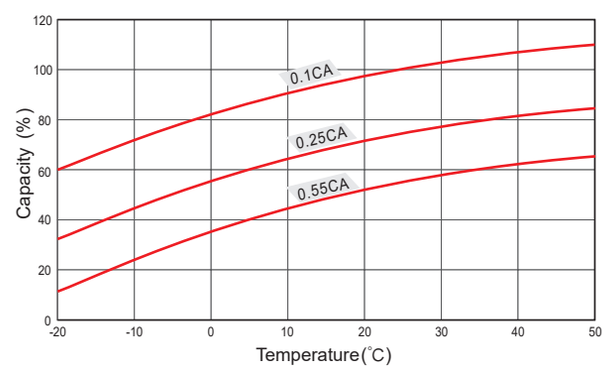
Cycle Life In Relation To Depth Of Discharge



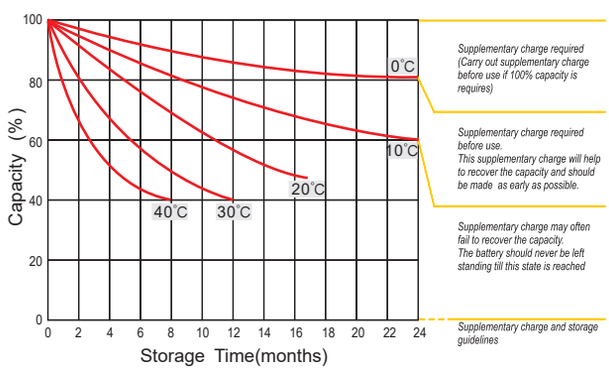
Relationship Between Charging Voltage And Temperature



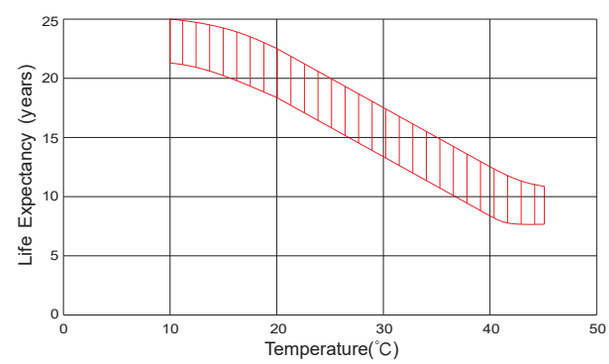
Temperature Effects On Capacity



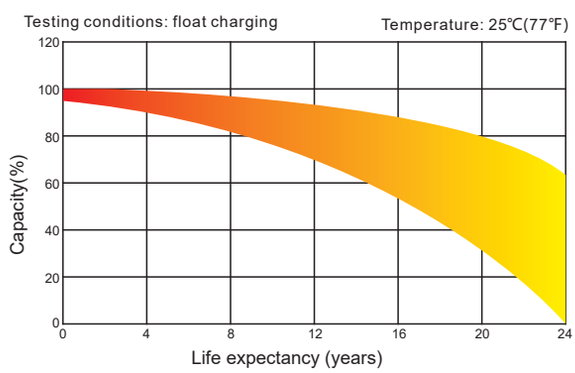
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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

2024V1/R

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