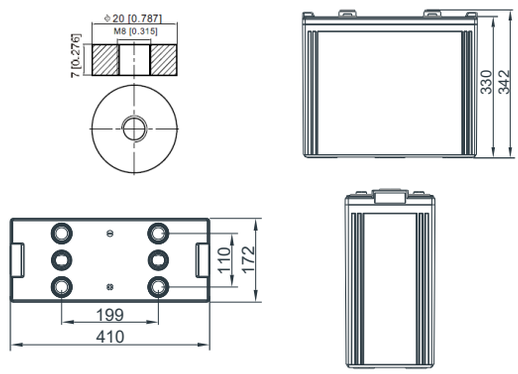
KB21000 2V 1000Ah

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)	410 / 16.1
	Width (mm / inch)	172 / 6.77
	Height (mm / inch)	330 / 13.0
	Total Height (mm / inch)	342 / 13.5
Approx. Weight	(Kg / lbs)	51.0 / 112.4
Design Life	20 years	
Terminal	M8	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.	
Rated Capacity	1000.0Ah /100.0 A	(10hr, 1.80V/cell, 25ºC / 77ºF)
	872.5Ah / 174.5 A	(5hr, 1.75V/cell, 25ºC / 77ºF)
	774.0Ah / 258.0 A	(3hr, 1.75V/cell, 25ºC / 77ºF)
	590.0Ah / 590.0A	(1hr, 1.65V/cell, 25ºC / 77ºF)
Max. Discharge Current	3200A (5s)	
Internal Resistance	Approx 0.48mΩ	
Operating Temp. Range	Discharge : -20 ~ 60ºC Charge : -0 ~ 50ºC Storage : -20 ~ 60ºC	
Cycle Use	Initial Charging Current less than 200A Voltage: 2.43V ~ 2.47V at 25ºC (77ºF) Temp. Coefficient: -4mV/ºC/Cell	
Standby Use	Initial Charging Current less than 200A 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	794.5	529.0	327.8	250.0	170.0	119.6	100.0
1.75V	831.3	550.0	339.9	258.0	174.5	121.7	101.3
1.70V	869.7	570.9	352.3	265.9	179.0	123.4	102.6
1.65V	909.9	590.0	364.3	273.3	183.8	125.4	104.2
1.60V	947.8	611.0	376.3	282.0	188.7	126.8	105.5

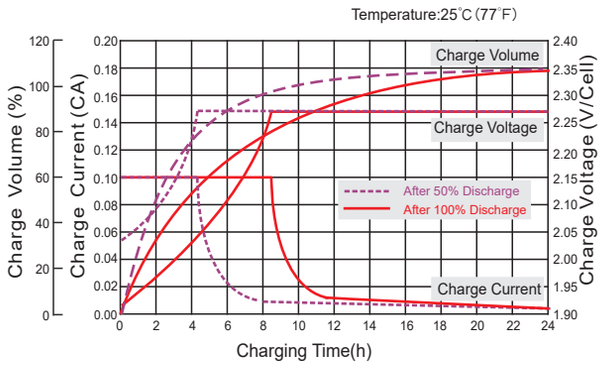
Constant Power Discharge (Watts per cell) at 25ºC (77ºF)

Volts/cell	30min	1h	2h	3h	5h	8h	10h
1.80V	1503.1	1017.9	633.8	485.6	332.3	235.7	197.6
1.75V	1556.9	1052.3	654.0	499.1	339.9	239.2	199.9
1.70V	1612.3	1085.7	674.6	512.3	347.5	242.1	202.3
1.65V	1670.1	1115.2	693.7	524.3	355.5	245.4	205.1
1.60V	1721.5	1148.2	713.1	538.7	363.7	247.6	207.4

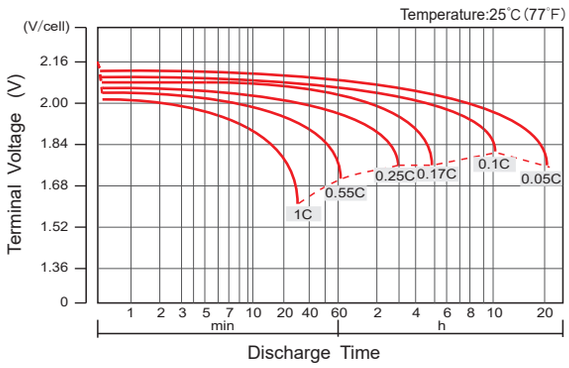
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KB21000 2V 1000Ah

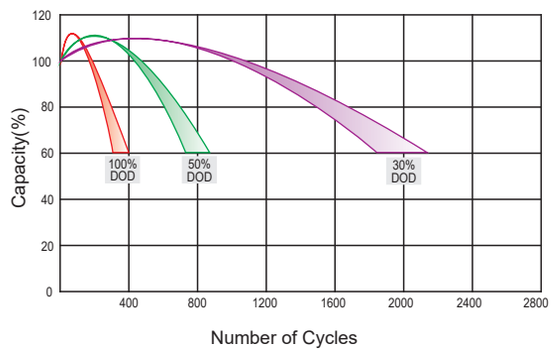
Charging Characteristic



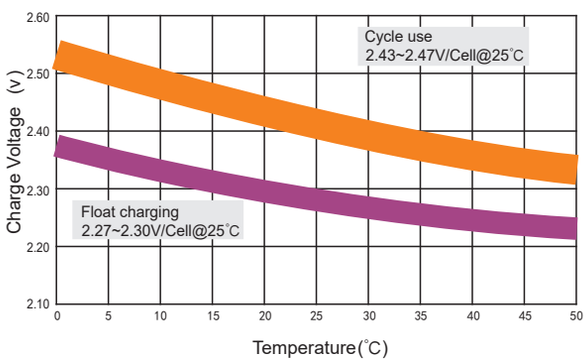
Discharge Characteristics



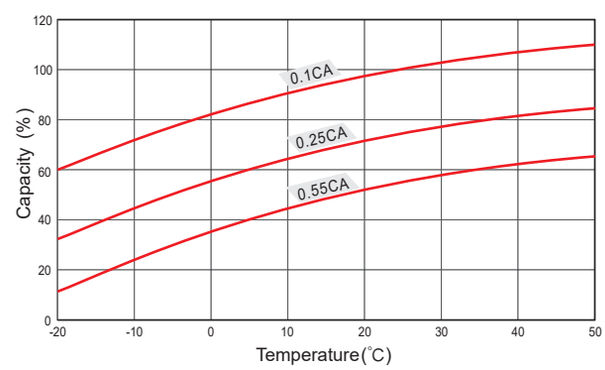
Cycle Life In Relation To Depth Of Discharge



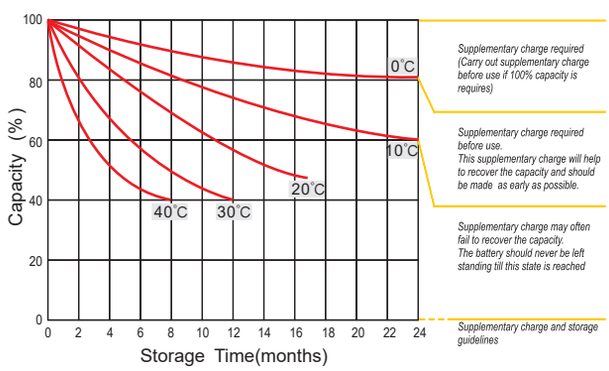
Relationship Between Charging Voltage And Temperature



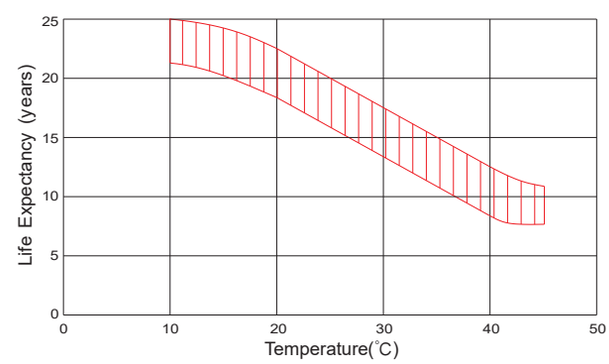
Temperature Effects On Capacity



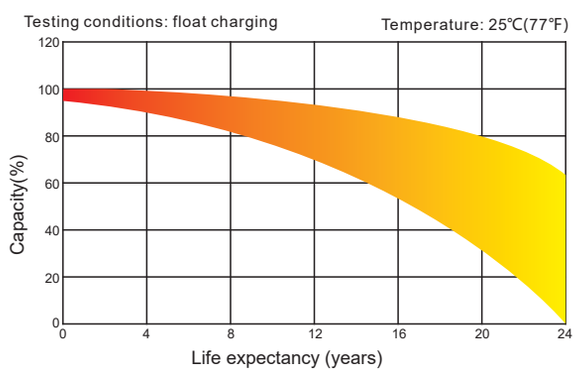
Storage Characteristics



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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