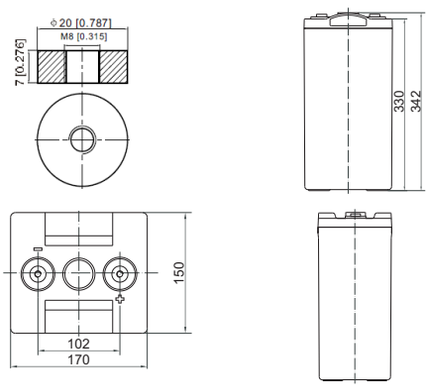
KB2300 2V 300Ah

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)	150 / 5.91
	Height (mm / inch)	330 / 12.99
	Total Height (mm / inch)	342 / 13.46
Approx. Weight	(Kg / lbs)	16.0 / 35.27
Design Life	20 years	
Terminal	M8	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.	
Rated Capacity	300.0Ah / 30.0 A	(10hr, 1.80V/cell, 25ºC / 77ºF)
	261.5Ah / 52.3 A	(5hr, 1.75V/cell, 25ºC / 77ºF)
	232.2Ah / 77.4 A	(3hr, 1.75V/cell, 25ºC / 77ºF)
	177.0Ah / 177.0 A	(1hr, 1.65V/cell, 25ºC / 77ºF)
Max. Discharge Current	1500A (5s)	
Internal Resistance	Approx 0.72mΩ	
Operating Temp. Range	Discharge : -20 ~ 60ºC (-4 ~ 140ºF)	
	Charge : -0 ~ 50ºC (32 ~ 122ºF)	
	Storage : -20 ~ 60ºC (-4 ~ 140ºF)	
Nominal Operating Temp. Range	25 ± 5ºC (77 ± 41ºF)	
Cycle Use	Initial Charging Current less than 60.0A	
	Voltage: 2.43VPC ~ 2.47VPC at 25ºC (77ºF)	
	Temp. Coefficient: -4mV/ºC	
Standby Use	Initial Charging Current less than 60.0A	
	Voltage: 2.27VPC ~ 2.30VPC at 25ºC (77ºF)	
	Temp. Coefficient: -3mV/ºC	
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 9001:2008 ISO 14001:2008

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	15min	30min	1h	3h	5h	8h	10h
1.80V	349.7	245.7	158.7	75.0	51.0	35.9	30.0
1.75V	378.8	257.1	165.0	77.4	52.3	36.5	30.4
1.70V	407.0	269.0	171.3	79.8	53.7	37.0	30.8
1.65V	434.6	281.4	177.0	82.0	55.1	37.6	31.3
1.60V	463.8	293.1	183.3	84.6	56.6	38.0	31.6

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

Volts/cell	15min	30min	1h	3h	5h	8h	10h
1.80V	647.9	464.8	305.4	145.7	99.7	70.7	59.3
1.75V	691.9	481.5	315.7	149.7	102.0	71.8	60.0
1.70V	732.9	498.6	325.7	153.7	104.3	72.6	60.7
1.65V	771.0	516.5	334.6	157.3	106.7	73.6	61.5
1.60V	810.8	532.4	344.5	161.6	109.1	74.3	62.2

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

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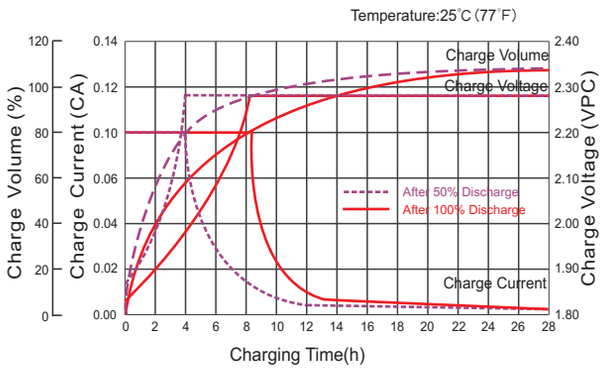
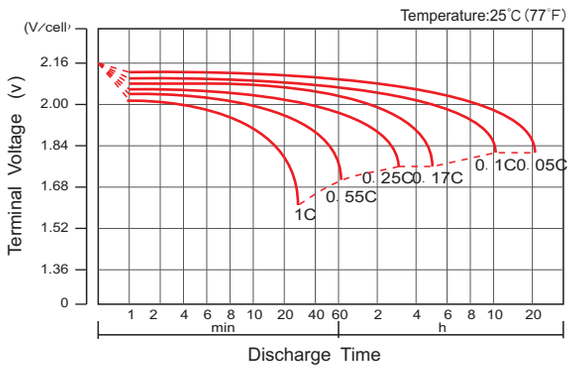
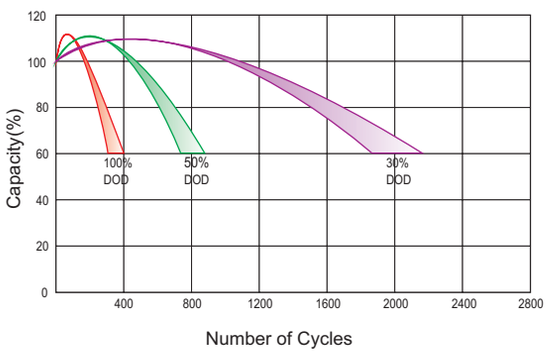
Charging Characteristic (cycle use)



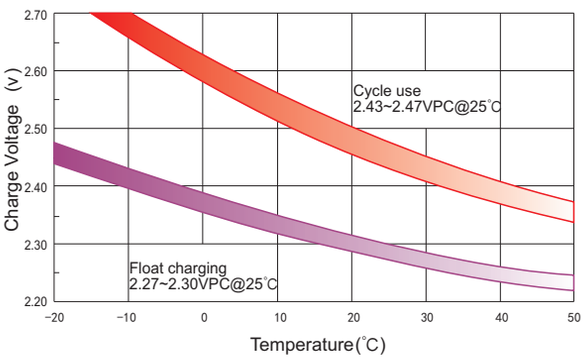
Discharge Characteristics



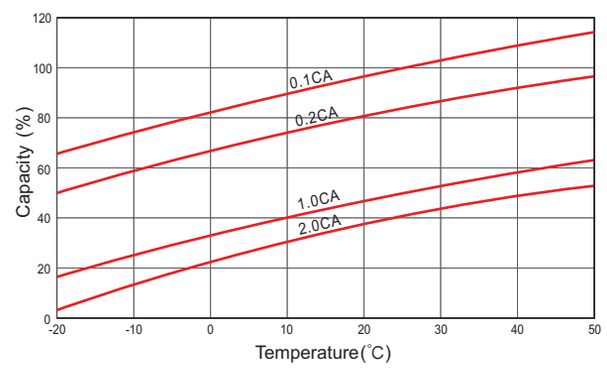
Cycle Life In Relation To Depth Of Discharge



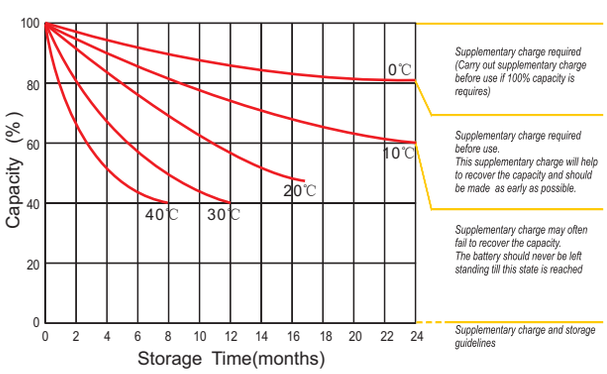
Relationship Between Charging Voltage And Temperature



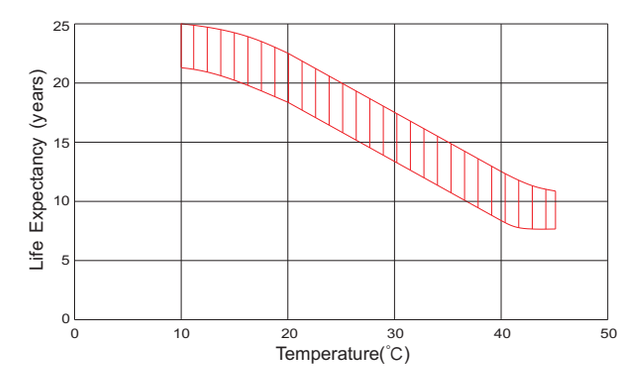
Temperature Effects On Capacity



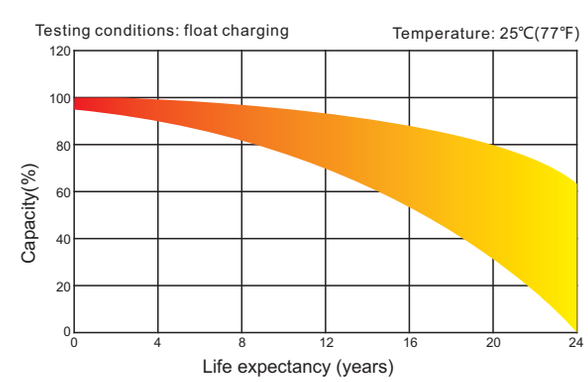
Storage Characteristics



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.

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