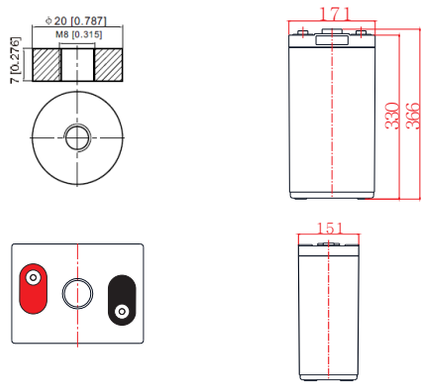
KB2300 2V 300Ah

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 15 years.

Performance Characteristics

Nominal Voltage	2V	
Dimensions	Length (mm / inch)	171 / 6.73
	Width (mm / inch)	151 / 5.94
	Height (mm / inch)	330 / 12.99
	Total Height (mm / inch)	366 / 14.41
Approx. Weight	(Kg / lbs)	18.0 / 39.7
Design Life	15 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	300.0Ah / 30.0A	(10hr, 1.80V/cell, 25ºC / 77ºF)
	273 .5Ah / 54.7 A	(5hr, 1.75V/cell, 25ºC / 77ºF)
	232.2Ah / 77.4 A	(3hr, 1.75V/cell, 25ºC / 77ºF)
	170.0Ah / 170.0 A	(1hr, 1.65V/cell, 25ºC / 77ºF)
Max. Discharge Current	3000A (5s)	
Internal Resistance	Approx 0.75mΩ	
Operating Temp. Range	Discharge : -20 ~ 50ºC (-4 ~ 122ºF)	
	Charge : -20 ~ 50ºC (-4 ~ 122ºF)	
	Storage : -20 ~ 50ºC (-4 ~ 122ºF)	
Nominal Operating Temp. Range	25 ± 5ºC (77 ± 41ºF)	
Cycle Use	Initial Charging Current less than 60.0A	
	Voltage: 2.40V ~ 2.50V at 25ºC (77ºF)	
	Temp. Coefficient: -5mV/ºC	
Standby Use	Initial Charging Current less than 60.0A	
	Voltage: 2.23V ~ 2.27V 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 Ultra Long Life 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

UPS / EPS
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	15min	30min	1h	3h	5h	8h	10h
1.80V	277	188	161	75.0	53.4	37.1	30.0
1.75V	297	201	165	77.4	54.7	37.9	31.2
1.70V	324	216	167	79.9	56.3	38.3	31.7
1.65V	350	230	170	82.2	56.8	38.9	32.2
1.60V	375	245	173	84.4	58.2	39.5	32.5

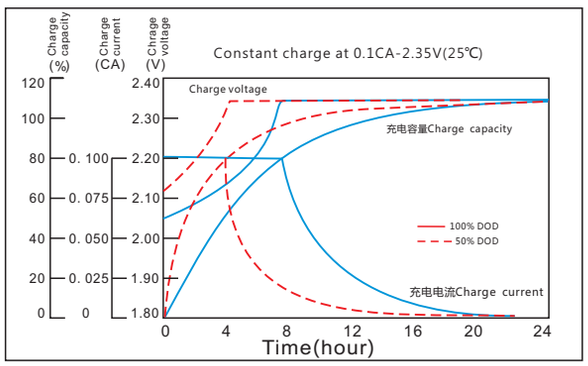
Constant Power Discharge (Watts per cell) at 25ºC (77ºF)

Volts/cell	15min	30min	1h	3h	5h	8h	10h
1.80V	512	346	303	141	101	71.2	58.3
1.75V	543	368	310	146	104	72.8	60.5
1.70V	582	395	313	150	107	73.5	61.6
1.65V	624	421	320	155	109	74.7	62.5
1.60V	661	448	325	159	111	75.8	63.1

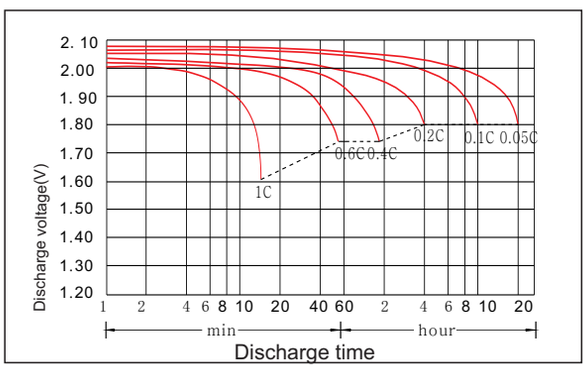
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KB2300 2V 300Ah

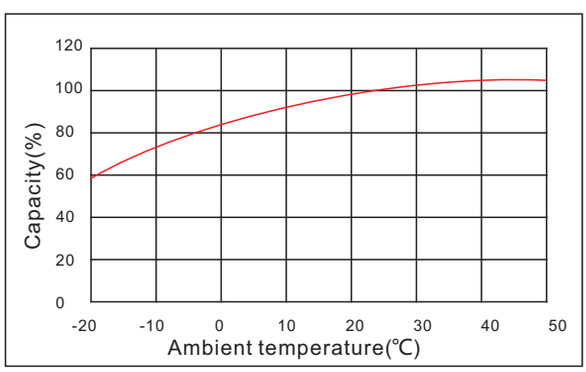
Charging Characteristic (cycle use)



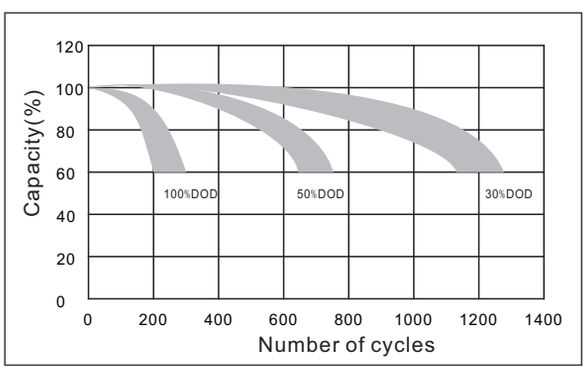
Discharge Characteristics



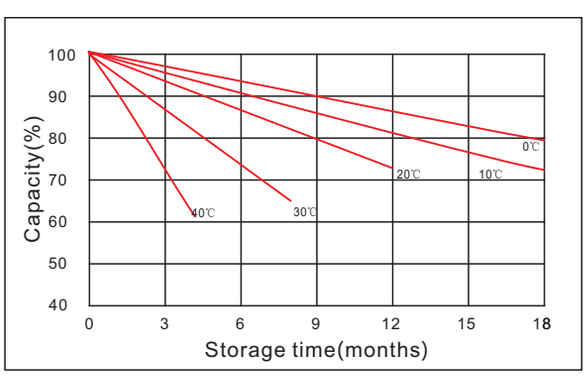
The Effect of Temperature on Capacity



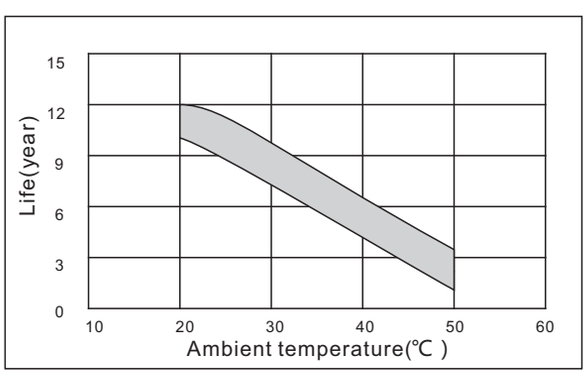
The Effect of Discharge Depth on Cycle Life



Curves of Self-Discharge



The Effect of Temperature on Float Life



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

2025/V1/K

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