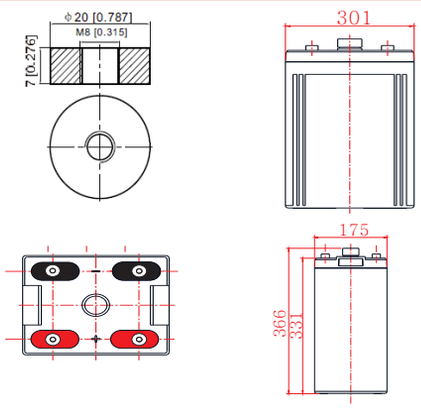
KB2600 2V 600Ah

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)	301 / 11.85
	Width (mm / inch)	175 / 6.89
	Height (mm / inch)	331 / 13.03
	Total Height (mm / inch)	366 / 14.41
Approx. Weight	(Kg / lbs)	35.6 / 78.6
Design Life	15 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	600.0Ah / 60.0 A	(10hr, 1.80V/cell, 25ºC / 77ºF)
	545.0Ah / 109.0 A	(5hr, 1.75V/cell, 25ºC / 77ºF)
	477.0Ah / 159.0 A	(3hr, 1.75V/cell, 25ºC / 77ºF)
	379.0Ah / 379.0A	(1hr, 1.65V/cell, 25ºC / 77ºF)
Max. Discharge Current	6000A (5s)	
Internal Resistance	Approx 0.32mΩ	
Operating Temp. Range	Discharge : -20 ~ 50ºC (-4 ~ 122ºF)	
	Charge : -20 ~ 50ºC (-4 ~ 122ºF)	
	Storage : -20 ~ 50ºC (-4 ~ 122ºF)	
Cycle Use	Initial Charging Current less than 120A	
	Voltage: 2.40VPC ~ 2.50VPC at 25ºC (77ºF)	
	Temp. Coefficient: -5mV/ºC	
Standby Use	Initial Charging Current less than 120A	
	Voltage: 2.23VPC ~2.27VPC 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	10h	20h
1.80V	749	489	324	154	107	60.0	32.1
1.75V	827	523	345	159	109	62.5	33.4
1.70V	911	563	362	164	113	63.4	33.9
1.65V	968	599	379	169	114	64.4	34.4
1.60V	1054	639	400	173	116	65.0	34.8

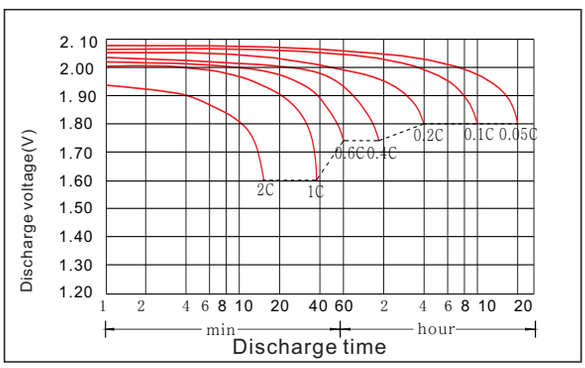
Constant Power Discharge (Watts per cell) at 25ºC (77ºF)

Volts/cell	15min	30min	1h	3h	5h	10h	20h
1.80V	1526	1003	656	313	221	126	67.6
1.75V	1625	1040	697	324	228	128	68.7
1.70V	1698	1077	725	337	234	130	69.7
1.65V	1784	1122	761	350	238	134	71.9
1.60V	1864	1168	824	363	246	137	73.5

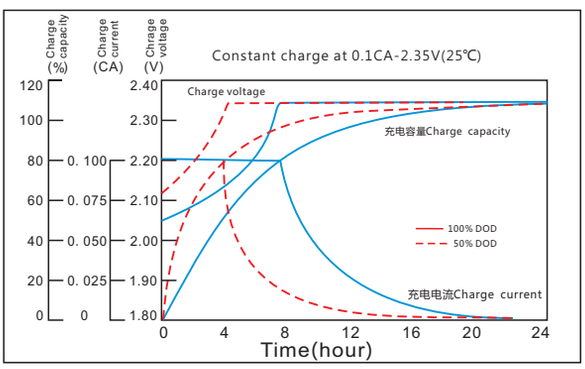
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KB2600 2V 600Ah

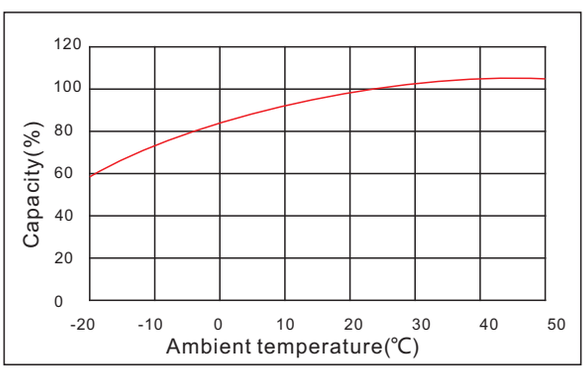
Charging Characteristic



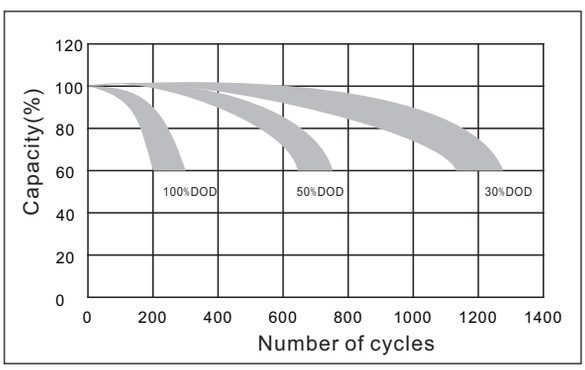
Discharge Characteristics



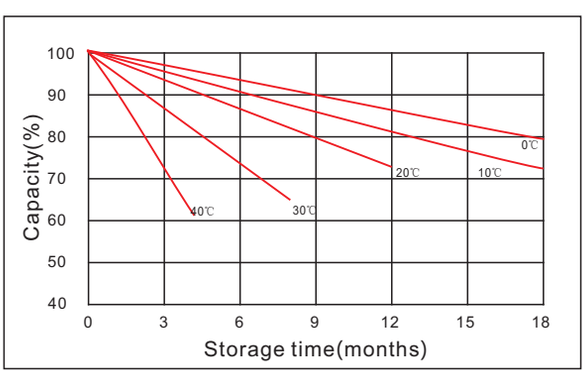
The effect of temperature on capacity



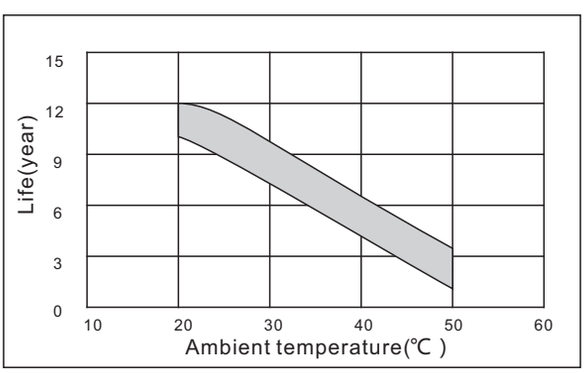
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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

2024V1/K

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