KB628 6V 2.8Ah

The KB Standard series consists in VRLA batteries - AGM technology (Absorbent Glass Mat), with a design life of 3-5 years and it is designed for general applications such as UPS, telecommunications and electrical applications.

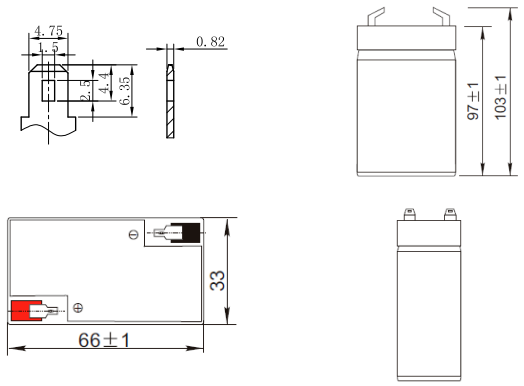
Performance Characteristics

Nominal Voltage	6V	
Dimensions	Length (mm / inch)	66 / 2.60
	Width (mm / inch)	33 / 1.30
	Height (mm / inch)	97 / 3.82
	Total Height (mm / inch)	103 / 4.06
Approx Weight	(Kg / lbs)	0.55 / 1.21
Design Life	5 years	
Terminal	F1	
Container Material	ABS	
Rated Capacity	2.8Ah / 0.140A	(20hr, 1.75V / cell, 25ºC / 77ºF)
	2.65Ah / 0.265A	(10hr, 1.75V / cell, 25ºC / 77ºF)
	2.41Ah / 0.482A	(5hr, 1.75V / cell, 25ºC / 77ºF)
	1.89Ah / 1.89A	(1hr, 1.60V / cell, 25ºC / 77ºF)
Max. Discharge Current	42A (5s)	
Internal Resistance	Approx 22mΩ	
Operating Temp. Range	Discharge : -15 ~ 50ºC (5 ~122ºF)	
	Charge : -20 ~ 40ºC (-4 ~ 104ºF)	
	Storage : -15 ~ 40ºC (5 ~ 104ºF)	
Nominal Operating Temp. Range	25 ± 3ºC (77 ± 5ºF)	
Cycle Use	Initial Charging Current less than 0.84A	
	Voltage: 7.2V ~ 7.5V at 25ºC (77ºF)	
	Temp. Coefficient: -15mV/ºC	
Standby Use	Initial Charging Current less than 0.84A	
	Voltage: 6.75V ~ 6.9V at 25ºC (77ºF)	
	Temp. Coefficient: -10mV/ºC	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	Fully charged Kaise Standard 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.	

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

Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	9.70	6.55	5.05	2.97	1.75	0.708	0.476	0.262	0.138
1.75V	10.2	6.82	5.22	3.05	1.79	0.719	0.482	0.265	0.140
1.70V	10.7	7.09	5.39	3.12	1.82	0.730	0.489	0.268	0.141
1.67V	11.1	7.29	5.52	3.18	1.85	0.737	0.493	0.269	0.142
1.60V	11.7	7.60	5.71	3.27	1.89	0.751	0.501	0.273	0.144

Dimensions and Terminal (Unit: mm (inches))



Applications

Alarm systems
Cable television
Communications Equipment
Control Equipment
Computers
Electronic Cash Registers
Electric Test Equipment
Emergency lighting systems
Fire & Security
Geophysical equipment
Marine equipment
Medical equipment
Micro processor based office machines
Portable cine & Video lights
Solar powered systems
Telecommunications systems
Television & Video recorders
Toys
Uninterruptible power supply systems
Vending machines

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

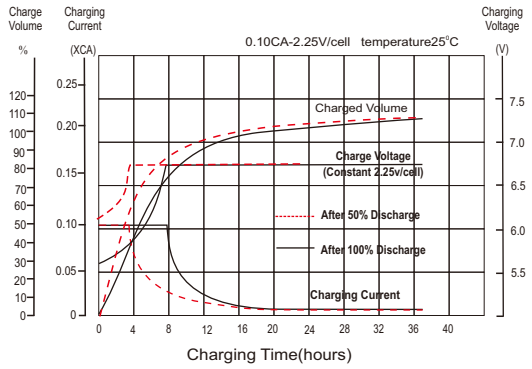
Discharge Constant Power (Watts per cell) at 25ºC (77ºF)

Volts/cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.80V	18.2	12.4	9.61	5.72	4.18	3.40	1.93	1.39	0.938
1.75V	18.9	12.8	9.87	5.84	4.25	3.46	1.96	1.41	0.949
1.70V	19.6	13.2	10.1	5.96	4.33	3.51	1.99	1.43	0.961
1.67V	20.1	13.5	10.4	6.05	4.39	3.56	2.01	1.44	0.968
1.60V	21.0	13.9	10.6	6.18	4.44	3.62	2.04	1.46	0.981

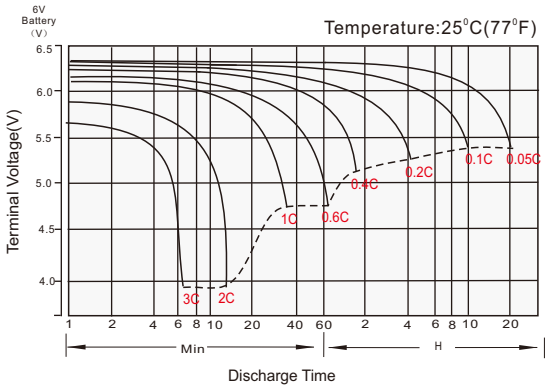
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KB628 6V 2.8Ah

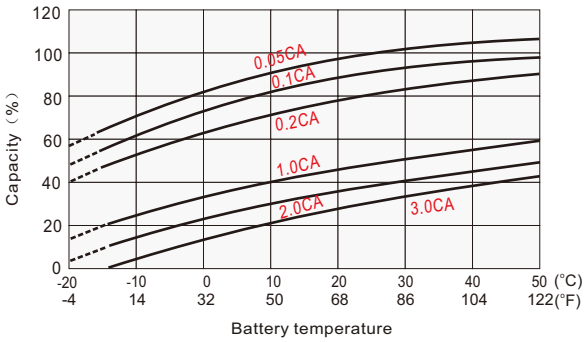
Charging Characteristics (float use)



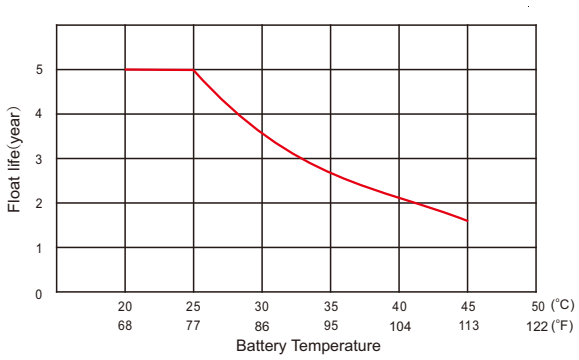
Discharge Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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

2022/N1/L

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