KB1232 12V 3.2Ah

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

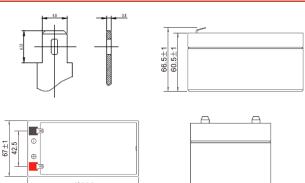
AL COLUMN	101/					
Nominal Voltage	12V	10// 500				
Dimensions	Length (mm / inch)	134 / 5.28				
	Width (mm / inch)	67 / 2.64				
	Height (mm / inch)	60.5 / 2.38				
	Total Height (mm / inch)	66.5 / 2.62				
Approx Weight	(Kg / lbs)	1.35 / 2.98				
Design Life	5 years					
Terminal	F1					
Container Material	ABS					
Rated Capacity	3.20Ah / 0.160A	(20hr, 1.80V / cell, 25°C / 77°F)				
	2.98Ah / 0.298A	(10hr, 1.80V / cell, 25°C / 77°F)				
	2.69Ah / 0.538A	(5hr, 1.75V / cell, 25°C / 77°F)				
	1.94Ah / 1.94A	(1hr, 1.60V / cell, 25°C / 77°F)				
Max. Discharge Current	48A (5s)					
Internal Resistance	Approx 45mΩ					
Operating Temp. Range	Discharge : -20 ~ 60°C (-4 ~140°F)					
	Charge : -10 ~ 60°C (14 ~	140°F)				
	Storage : -20 ~ 60°C (-20	~ 140°F)				
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)					
Cycle Use	Initial Charging Current le	ss than 0.64A				
,	Storage : -20 ~ 60°C (-20 ~ 140°F) 25 ± 3°C (77 ± 5°F) Initial Charging Current less than 0.64A Voltage: 14.4V ~ 14.7V at 25°C (77°F)					
	Temp. Coefficient: -30mV/º(
Standby Use	Initial Charging Current le	ss than 0.64A				
,	Voltage: 13.5V ~ 13.8V at 25					
	Temp. Coefficient: -20mV/º(
Capacity affected by Temperature	40°C (104°F)	103%				
, , , , ,	25°C (77°F)	100%				
	0°C (32°F)	86%				
Self Discharge	Fully charged Kaise Stand	ard Series batteries may be				
Ü	stored for up to 6 months					
		red. For higher temperatures the				
	time interval will be short	· ·				
	uine intervat will de Shorter.					

Discharge Constant Current (Amperes) at 77°F (25°C)

Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	7.55	5.11	4.10	2.72	1.66	0.756	0.524	0.298	0.160
1.75V	8.95	5.78	4.52	2.91	1.75	0.783	0.538	0.303	0.162
1.70V	10.2	6.37	4.89	3.05	1.82	0.809	0.551	0.308	0.164
1.65V	11.2	6.85	5.17	3.18	1.90	0.829	0.563	0.313	0.167
1.60V	11.8	7.14	5.39	3.27	1.94	0.849	0.575	0.318	0.168



Dimensions and Terminal (Unit: mm (inches))



Applications

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

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)	l ≤ 0,1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA

Discharge Constant Power (Watts per cell) at 77°F (25°C)

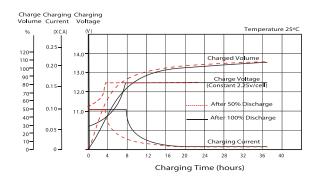
Volts/cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.80V	14.1	9.64	7.81	5.27	4.01	3.26	1.98	1.49	1.04
1.75V	16.5	10.8	8.53	5.59	4.24	3.41	2.05	1.54	1.06
1.70V	18.5	11.8	9.15	5.83	4.38	3.53	2.12	1.58	1.08
1.65V	20.1	12.5	9.56	6.03	4.52	3.66	2.17	1.61	1.10
1.60V	20.8	12.9	9.86	6.13	4.58	3.71	2.22	1.64	1.12

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

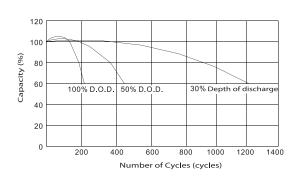
KB1232 12V 3.2Ah



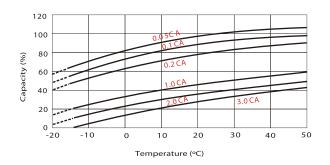
Charging Characteristics (float use)



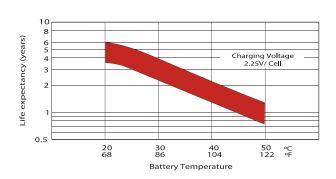
Cycle Life in Relation to Depth of Discharge



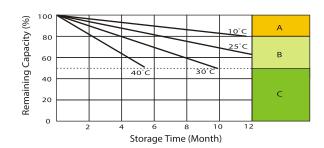
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



No supplementary charge required (carrry out supplementary charge before use if 100% capacity is required)

Supplementary charge required before use . Optional charging way a below: 1. Charged for above 3 days at limited current 0.25 CA and constant voltage 2.25V / cell. 2. Charged fo above 20 hours limited current 0.25CA and constant voltage 2.45V / cell.

3. Charged for 8-10 hours ar limited current 0.05 CA.

Supplementary charge often fail to recover the capacity. The battery should never be left standing till this is reached.

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