KB1290-F1 12V 8.0Ah

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

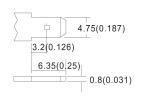
Nominal Voltage	12V	
Dimensions	Length (mm / inch)	151 / 5.95
	Width (mm / inch)	65 / 2.56
	Height (mm / inch)	93.5 / 3.68
	Total Height (mm / inch)	99 / 3.90
Approx Weight	(Kg / lbs)	2.66 / 5.87
Design Life	5 years	
Terminal	F1	
Container Material	ABS	
Rated Capacity	8.60Ah / 0.430A	(20hr, 1.80V / cell, 25°C / 77°F)
	7.68Ah / 0.786A	(10hr, 1.80V / cell, 25°C / 77°F)
	7.00Ah / 1.40A	(5hr, 1.75V / cell, 25°C / 77°F)
	5.84Ah / 5.84A	(1hr, 1.60V / cell, 25°C / 77°F)
Max. Discharge Current	129A (5s)	
Internal Resistance	Approx 19mΩ	
Operating Temp. Range	Discharge : -15 ~ 50°C (5	~122°F)
	Charge : 0 ~ 40°C (32 ~ 1)	04ºF)
	Storage : -15 ~ 40°C (5 ~	104°F)
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
Cycle Use	Initial Charging Current le	ss than 2.58A
	Voltage: 14.4V ~ 15.0V at 25	5°C (77°F)
	Temp. Coefficient: -30mV/º(
Standby Use	No limit on Initial Chargin	g Current
	Voltage: 13.5V ~ 13.80V at 2	25°C (77°F)
	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
	stored for up to 6 months	at 25°C (77°F) and then a
	freshening charge is requi	red. For higher temperatures the
	time interval will be short	er.

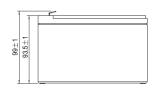
Discharge Constant Current (Amperes) at 77°F (25°C)

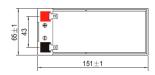
Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	31.5	20.5	15.9	9.46	5.32	2.06	1.36	0.786	0.430
1.75V	34.6	21.6	16.9	9.83	5.50	2.12	1.40	0.807	0.432
1.70V	36.8	22.8	17.6	10.2	5.64	2.18	1.44	0.822	0.438
1.65V	38.5	23.6	18.2	10.5	5.74	2.22	1.47	0.830	0.440
1.60V	39.7	24.5	18.5	10.7	5.84	2.25	1.49	0.838	0.443



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 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)	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)

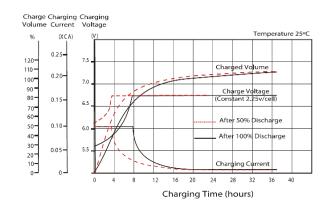
Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	57.3	37.7	29.5	17.8	10.2	4.00	2.65	1.55	0.851
1.75V	62.1	39.3	31.0	18.4	10.5	4.09	2.73	1.59	0.854
1.70V	65.2	41.0	32.0	19.0	10.7	4.21	2.80	1.62	0.863
1.65V	67.0	41.7	32.6	19.4	10.9	4.27	2.85	1.63	0.868
1.60V	68.1	42.8	32.9	19.6	11.0	4.30	2.87	1.64	0.872

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

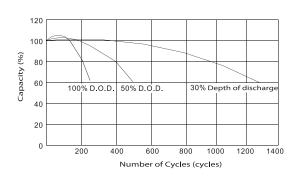
KB1290-F1 12V 8.0Ah



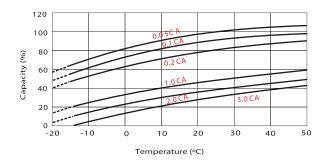
Charging Characteristics (float use)



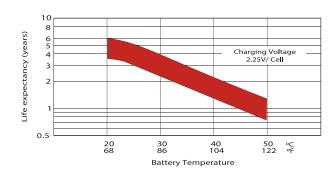
Cycle Life in Relation to Depth of Discharge



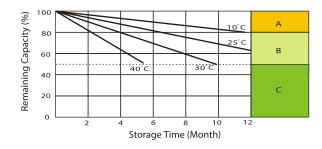
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



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

B 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.

