

KB1250-F1 12V 5.4Ah



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.



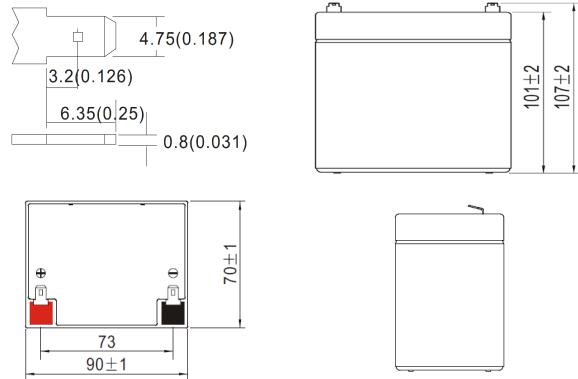
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	90 / 3.54
	Width (mm / inch)	70 / 2.76
	Height (mm / inch)	101 / 3.98
	Total Height (mm / inch)	107 / 4.21
Approx Weight	(Kg / lbs)	1.65 / 3.64
Design Life	5 years	
Terminal	F1	
Container Material	ABS	
Rated Capacity	5.40Ah / 0.27A	[20hr, 1.80V / cell, 25°C / 77°F]
	5.02Ah / 0.502A	[10hr, 1.80V / cell, 25°C / 77°F]
	4.54Ah / 0.907A	[5hr, 1.75V / cell, 25°C / 77°F]
	3.28Ah / 3.28A	[1hr, 1.60V / cell, 25°C / 77°F]
Max. Discharge Current	81A [5s]	
Internal Resistance	Approx 30mΩ	
Operating Temp. Range	Discharge : -15 ~ 50°C (5 ~ 122°F) Charge : 0 ~ 40°C (32 ~ 104°F) Storage : -15 ~ 40°C (5 ~ 104°F)	
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
Cycle Use	Initial Charging Current less than 1.62A Voltage: 14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient: -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage Voltage: 13.5V ~ 13.8V at 25°C (77°F) Temp. Coefficient: -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Fully charged Kaise Standard Series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

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

Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	12.7	8.62	6.91	4.59	2.81	1.28	0.883	0.502	0.270
1.75V	15.1	9.75	7.62	4.90	2.95	1.32	0.907	0.512	0.273
1.70V	17.1	10.8	8.25	5.15	3.08	1.36	0.930	0.521	0.278
1.65V	18.9	11.6	8.73	5.37	3.21	1.40	0.950	0.528	0.281
1.60V	19.8	12.1	9.09	5.52	3.28	1.43	0.970	0.537	0.283

Dimensions and Terminal (Unit: mm (inches))



Applications

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

Certifications

ISO 9001:2008 ISO 14001:2008



Discharge Current vs. Discharge Voltage

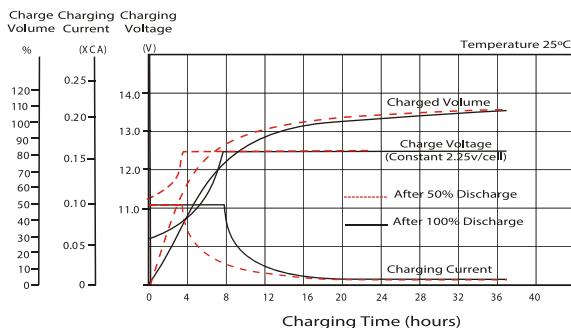
Final discharge voltage V/CELL	I ≤ 0.1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA
	1.8	1.75	1.7	1.6

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

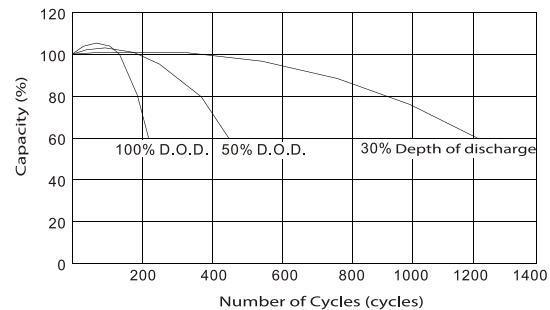
Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	23.8	16.3	13.2	8.89	5.50	2.52	1.76	1.01	0.543
1.75V	27.8	18.2	14.4	9.43	5.76	2.59	1.79	1.02	0.544
1.70V	31.2	19.9	15.4	9.84	5.97	2.67	1.83	1.03	0.551
1.65V	33.9	21.1	16.1	10.2	6.17	2.72	1.86	1.04	0.556
1.60V	35.1	21.7	16.6	10.3	6.26	2.77	1.89	1.05	0.556

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

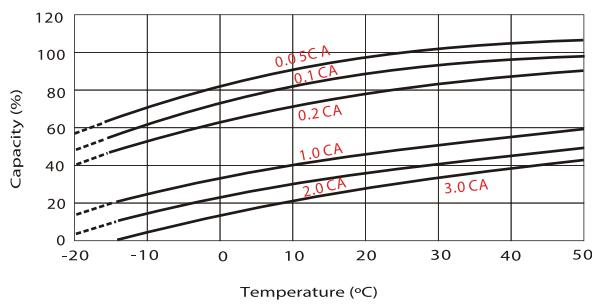
Charging Characteristics (float use)



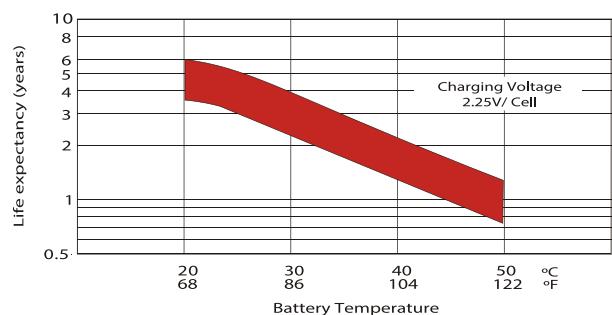
Cycle Life in Relation to Depth of Discharge



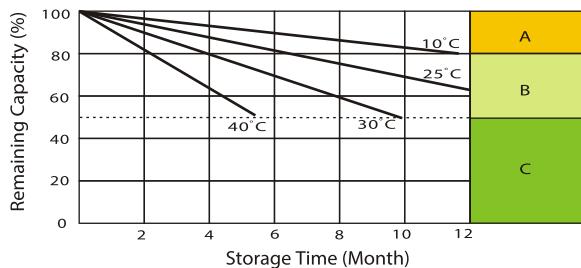
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



A No supplementary charge required
[carry 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 for 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.

C 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.

