

KB1270SECURITY 12V 7.0Ah



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.



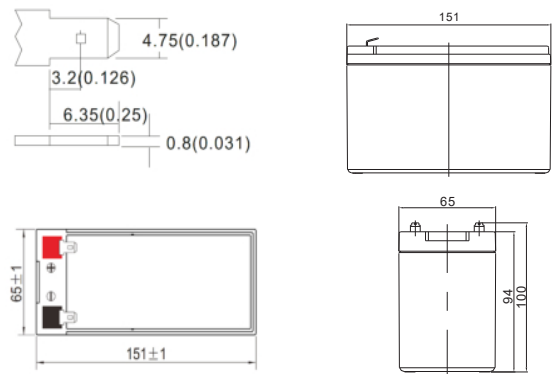
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	151 / 5.94
	Width (mm / inch)	65 / 2.54
	Height (mm / inch)	94 / 3.70
	Total Height (mm / inch)	100 / 3.94
Approx Weight	(Kg / lbs)	1.86 / 4.10
Design Life	5 Years	
Terminal	F1	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.	
Rated Capacity	7.026Ah / 0.351A	(20hr, 1.60V / cell, 25°C / 77°F)
	6.32Ah / 0.632A	(10hr, 1.75V / cell, 25°C / 77°F)
	5.80Ah / 1.16A	(5hr, 1.75V / cell, 25°C / 77°F)
	4.01Ah / 4.01A	(1hr, 1.60V / cell, 25°C / 77°F)
Max. Discharge Current	79A(5s)	
Internal Resistance	Approx. 40.0 mΩ	
Operating Temp. Range	Discharge : -20 ~ 50°C (-4 ~ 122°F)	
	Charge : -20 ~ 50°C (-4 ~ 122°F)	
	Storage : -20 ~ 50°C (-4 ~ 122°F)	
Cycle Use	Initial Charging Current less than 1.65A	
	Voltage: 14.4V ~ 15.0V at 25°C (77°F)	
	Temp. Coefficient: -30mV/°C	
Standby Use	Initial Charging Current less than 1.65A	
	Voltage: 13.5V ~ 13.8V at 25°C (77°F)	
	Temp. Coefficient: -18mV/°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 25°C (77°F)

Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	16.3	12.4	10.2	6.68	3.49	1.52	1.13	0.619	0.317
1.75V	17.6	13.1	10.5	6.90	3.60	1.60	1.16	0.632	0.330
1.70V	19.1	13.8	10.7	7.06	3.68	1.63	1.19	0.646	0.337
1.65V	23.3	14.7	11.1	7.30	3.81	1.67	1.21	0.659	0.343
1.60V	23.5	15.3	11.7	7.68	4.01	1.71	1.22	0.666	0.351

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 / ISO 14001



Discharge Current vs. Discharge Voltage

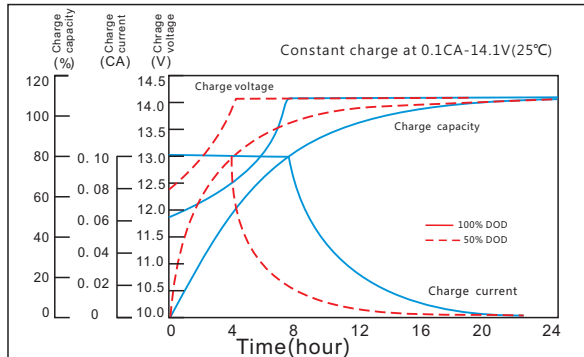
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current [A]	$I \leq 0.1CA$	$0.25CA \geq I > 0.1CA$	$0.55CA \geq I > 0.25CA$	$I > 0.55CA$

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

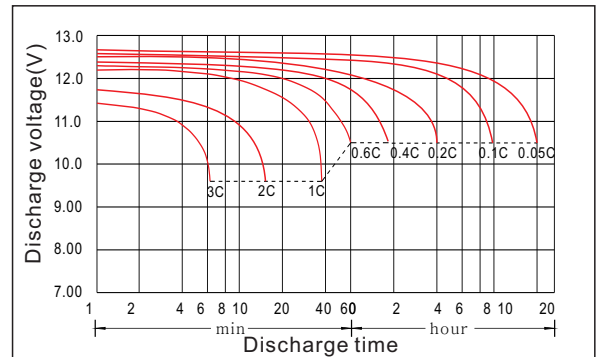
Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	30.2	23.8	19.3	12.8	6.59	2.96	2.19	1.20	0.651
1.75V	33.7	24.5	19.8	13.1	6.66	3.04	2.20	1.26	0.654
1.70V	37.1	25.4	20.0	13.3	6.78	3.08	2.21	1.26	0.671
1.65V	40.6	26.2	20.6	13.7	6.98	3.15	2.28	1.27	0.674
1.60V	44.0	27.6	21.2	14.2	7.35	3.23	2.29	1.29	0.694

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

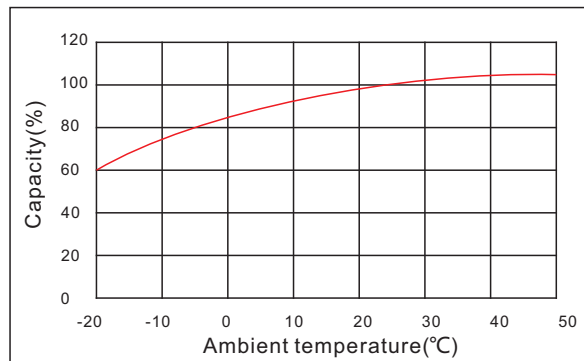
Charging Characteristics



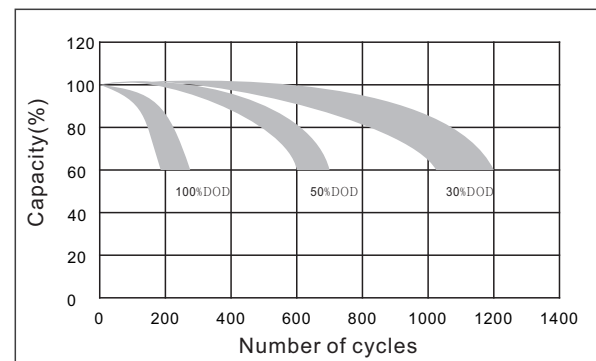
Discharge Characteristics



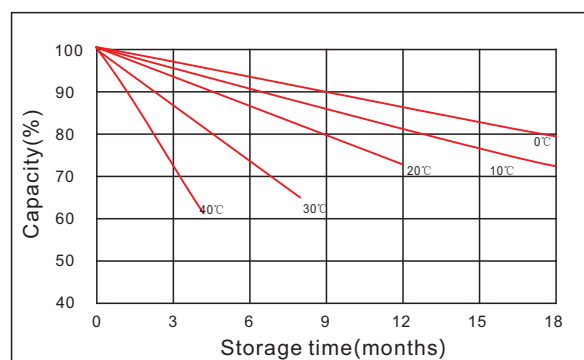
The Effect of Temperature on Capacity



The Effect of Discharge Depth on Cycle Life



Curves of Self-Discharge



The Effect of Temperature on Float Life

