KB645 6V 4.5Ah



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.



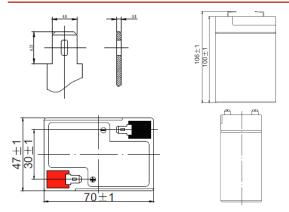
Performance Characteristics

6V				
Length (mm / inch)	70 / 2.76			
Width (mm / inch)	47 / 1.85			
Height (mm / inch)	100 / 3.94			
Total Height (mm / inch)	106 / 4.17			
(Kg / lbs)	0.81/1.79			
5 years				
F1				
ABS				
4.50Ah / 0.225A	(20hr, 1.80V / cell, 25°C / 77°F)			
4.19Ah / 0.419A	(10hr, 1.80V / cell, 25°C / 77°F)			
3.78Ah / 0.756A	(5hr, 1.75V / cell, 25ºC / 77ºF)			
2.73Ah / 2.73A	(1hr, 1.60V / cell, 25ºC / 77ºF)			
67.5A (5s)				
Approx 25m Ω				
Discharge : -20 ~ 60°C (-4 ~140°F)				
Charge : -10 ~ 60°C (14 ~ 140°F)				
Storage : -20 ~ 60°C (-20	~ 140°F)			
25 ± 3°C (77 ± 5°F)				
Initial Charging Current le	ss than 0.9A			
Voltage: 7.2V ~ 7.35V at 25ºC (77ºF)				
Temp. Coefficient: -15mV/ºC				
Initial Charging Current le	ss than 0.9A			
Voltage: 6.75V ~ 6.9V at 25°C (77°F)				
Temp. Coefficient: -10mV/º	C			
40°C (104°F)	103%			
25°C (77°F)	100%			
0°C (32°F)	86%			
Fully charged Kaise Stand	ard Series batteries may be			
stored for up to 6 months at 25°C (77°F) and then a				
Construction of the second second	and East School and a section of the			
time interval will be short	ired. For higher temperatures the			
	Length (mm / inch) Width (mm / inch) Height (mm / inch) Total Height (mm / inch) (Kg / lbs) 5 years F1 ABS 4.50Ah / 0.225A 4.19Ah / 0.225A 4.19Ah / 0.225A 4.19Ah / 0.225A 4.19Ah / 0.225A 4.19Ah / 0.225A 4.19Ah / 0.25A 2.73Ah / 2.73A 67.5A (5s) Approx 25m Ω Discharge : $-20 \sim 60^{\circ}C$ ($-Charge : -10 \sim 60^{\circ}C$ (-20 Charge : $-20 \sim 60^{\circ}C$ (-20 Charge : $-20 \sim 60^{\circ}C$ (-20 Storage : $-20 \sim 60^{\circ}C$ (-20 $25 \pm 3^{\circ}C$ ($77 \pm 5^{\circ}F$) Initial Charging Current le Voltage: $6.75V \sim 6.9V$ at $25'$ Temp. Coefficient: $-15mV/^{\circ}$ Initial Charging Current le Voltage: $6.75V \sim 6.9V$ at $25'$ Temp. Coefficient: $-10mV/^{\circ}$ $40^{\circ}C$ ($104^{\circ}F$) $25^{\circ}C$ ($77^{\circ}F$) $0^{\circ}C$ ($32^{\circ}F$) Fully charged Kaise Stand			

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

Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	10.6	7.19	5.76	3.83	2.34	1.06	0.736	0.419	0.225
1.75V	12.6	8.13	6.35	4.09	2.46	1.10	0.756	0.427	0.227
1.70V	14.3	8.96	6.88	4.29	2.57	1.14	0.775	0.434	0.231
1.65V	15.7	9.64	7.27	4.47	2.67	1.17	0.792	0.440	0.234
1.60V	16.5	10.0	7.58	4.60	2.73	1.19	0.808	0.447	0.236

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)	≤ 0,1CA	$0.25\text{CA} \ge I > 0.1\text{CA}$	0.55 CA \geq I > 0.25 CA	> 0.55CA	

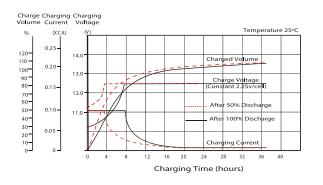
Discharge Constant Power (Watts per cell) at 77°F (25°C)

Volts/cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.80V	19.8	13.6	11.0	7.41	5.65	4.58	2.78	2.10	1.46
1.75V	23.2	15.2	12.0	7.86	5.96	4.80	2.88	2.16	1.49
1.70V	26.0	16.6	12.9	8.20	6.16	4.97	2.98	2.22	1.52
1.65V	28.3	17.6	13.4	8.48	6.36	5.15	3.05	2.27	1.55
1.60V	29.2	18.1	13.9	8.62	6.44	5.22	3.13	2.31	1.57

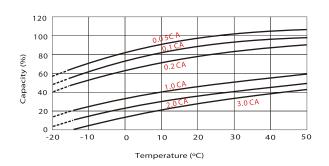
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.



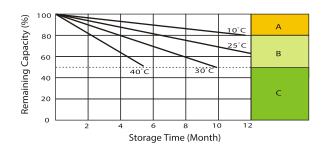
Charging Characteristics (float use)



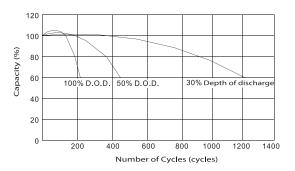
Temperature Effects in Relation to Battery Capacity



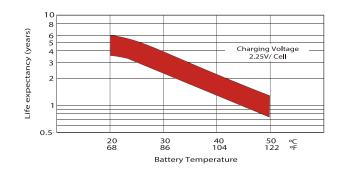
Self Discharge Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life





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.