KB12180 12V 17Ah

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

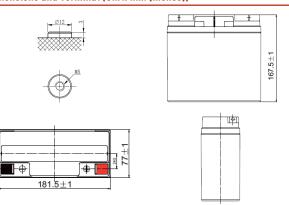
Nominal Voltage	12V			
Dimensions	Length (mm / inch)	181 / 7.13		
	Width (mm / inch)	77 / 3.03		
	Height (mm / inch)	167 / 6.57		
	Total Height (mm / inch)	167 / 6.57		
Approx Weight	(Kg / lbs)	5.3 / 11.7		
Design Life	5 years			
Terminal	M5			
Container Material	ABS			
Rated Capacity	17.0Ah / 0.85A	(20hr, 10.5V / cell, 25°C / 77°F)		
	16.8Ah / 1.68A	(10hr, 10.5V / cell, 25°C / 77°F)		
	15.45Ah / 3.09A	(5hr, 10.5V / cell, 25°C / 77°F)		
	11.8h / 11.8A	(1hr, 9.6V / cell, 25°C / 77°F)		
Max. Discharge Current	255A (5s)			
Internal Resistance	Approx 16.5mΩ			
Operating Temp. Range	Discharge : -20 ~ 60°C (-4	4 ~140°F)		
	Charge : -10 ~ 60°C (14 ~	140°F)		
	Storage : -20 ~ 60°C (-4 ~	- 140°F)		
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)			
Cycle Use	Initial Charging Current le			
	Voltage: 14.5V ~ 14.9V at 25	5°C (77°F)		
	Temp. Coefficient: -20mV/º0			
Standby Use	No limit on Initial Chargin			
	Voltage: 13.6V ~ 13.8V at 25			
	Temp. Coefficient: -20mV/º0			
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 requi	red. For higher temperatures the		
	time interval will be shorte	er.		

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

Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	55.3	39.4	30.9	17.9	10.9	4.27	2.84	1.65	0.84
1.75V	58	40.7	31.8	18.4	11.2	4.35	2.90	1.68	0.85
1.70V	60.5	41.9	32.6	18.9	11.4	4.42	2.97	1.72	0.87
1.65V	62.8	43	33.3	19.4	11.6	4.5	3.03	1.75	0.88
1.60V	64.9	44.1	34	19.8	11.8	4.57	3.09	1.78	0.89



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 Telecommunications systems Electronic Cash Registers 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)

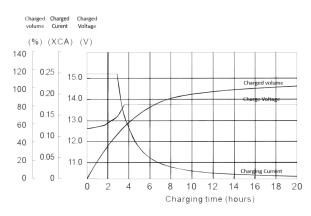
Volts/cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.80V	94.0	72.8	56.5	33.1	26.0	21.5	12.5	8.74	5.88
1.75V	98.0	74.3	57.8	33.7	26.4	21.7	12.7	8.83	5.95
1.70V	103	75.8	59.0	34.3	26.8	22.0	12.8	8.92	6.01
1.65V	107	77.2	60.2	34.8	27.1	22.2	12.9	9.01	6.07
1.60V	111	78.6	61.3	35.3	27.4	22.4	13.0	9.09	6.13

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

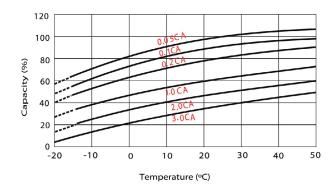
KB12180 12V 18Ah



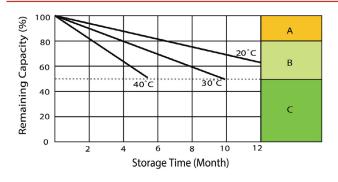
Charging Characteristics (float use)



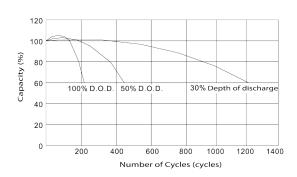
Temperature Effects in Relation to Battery Capacity



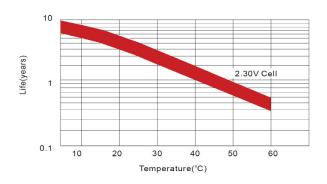
Self Discharge Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



- 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.
 - 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.