

KB12180 12V 18Ah



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.



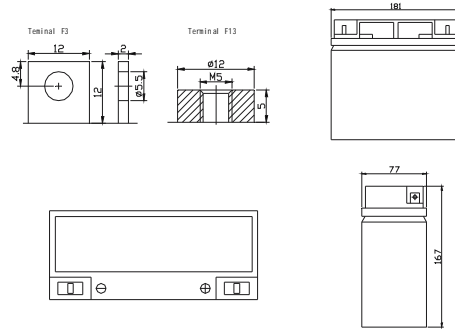
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	181±2 / 7.13
	Width (mm / inch)	77±1 / 3.03
	Height (mm / inch)	167±1 / 6.57
	Total Height (mm / inch)	167±1 / 6.57
Approx Weight	(Kg / lbs) 5.0 / 11.0	
Design Life	5 years	
Terminal	M5	
Container Material	A.B.S. (UL94-HB) Flammability resistance of UL94-V2 can be available upon request.	
Rated Capacity	18.0Ah / 0.90A	(20hr, 1.75V / cell, 25°C / 77°F)
	13.65Ah / 4.55A	(3hr, 1.75V / cell, 25°C / 77°F)
	12.5Ah / 12.5A	(1hr, 1.60V / cell, 25°C / 77°F)
Max. Discharge Current	180A (5s)	
Internal Resistance	Approx 14.0mΩ	
Operating Temp. Range	Discharge : -20 ~ 60°C (-4 ~ 140°F)	
	Charge : 0 ~ 50°C (32 ~ 122°F)	
	Storage : -20 ~ 60°C (-4 ~ 140°F)	
Normal Operating Temp. Range	25°C ± 5°C	
Charge Current	Max. 5.4A	
Cycle Use	Voltage: 14.4V ~ 15.0V at 25°C (77°F)	
Standby Use	Voltage: 13.6V ~ 13.8V at 25°C (77°F)	
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	53.4	39.4	31.6	19.7	12.0	4.52	2.97	1.67	0.86
1.75V	59.8	42.3	33.4	20.2	12.2	4.55	2.99	1.71	0.90
1.70V	66.2	45.2	35.3	20.6	12.3	4.57	3.01	1.73	0.94
1.67V	69.9	46.6	36.1	20.8	12.4	4.59	3.02	1.75	0.95
1.60V	74.7	50.0	38.4	21.1	12.5	4.61	3.04	1.76	0.99

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

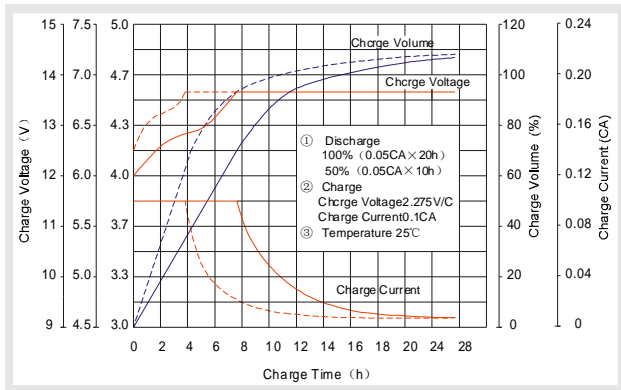
Final discharge voltage V/CELL	1.75V	1.70V	1.60V
Discharge current [A]	(A) ≤0.2C	0.2 < C (A) < 1.0C	(A) ≥1.0C

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

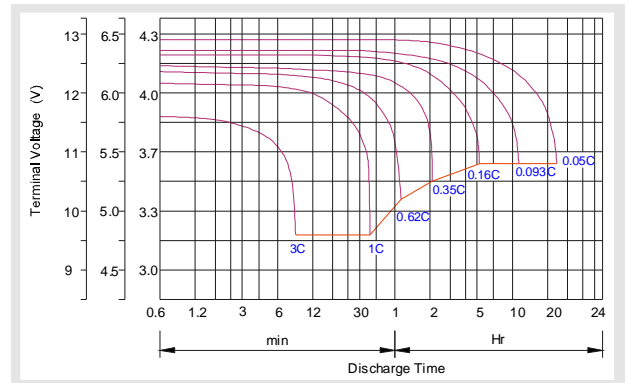
Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	107	78.3	63.1	39.3	24.0	9.04	7.04	3.35	1.73
1.75V	120	83.7	66.8	40.3	24.4	9.11	7.06	3.40	1.78
1.70V	132	87.3	70.5	41.3	24.8	9.16	7.07	3.44	1.85
1.67V	135	90.0	72.2	41.5	24.9	9.18	7.09	3.47	1.89
1.60V	144	93.6	76.1	42.2	25.0	9.20	7.15	3.51	1.96

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

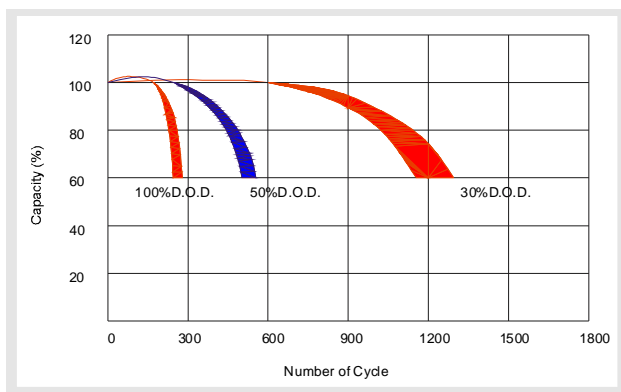
Charging Characteristics



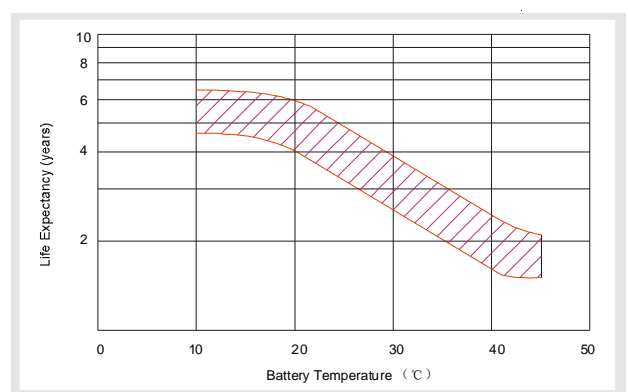
Discharge Characteristics



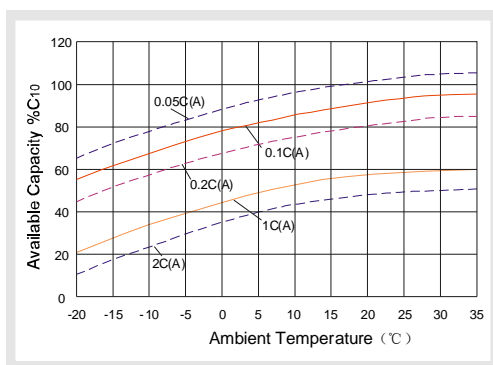
Life Characteristics of Cyclic Use



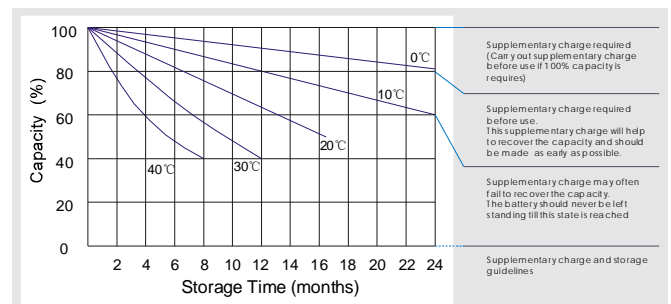
Effect of Temperature on Long Term Float Life



Temperature Effects Curve



Storage Characteristics



IMPORTANT NOTE: The specifications presented herein are subject to revision without notice.

