

KBL12330 12V 33Ah



The KAISE LONG LIFE Series 10 years has been designed for different applications, such as UPS, Electric and Telecommunications applications that require a long useful life. Grid refining technology and the thicker plates are used to extend the battery standby life and reduce the plate grid corrosion speed



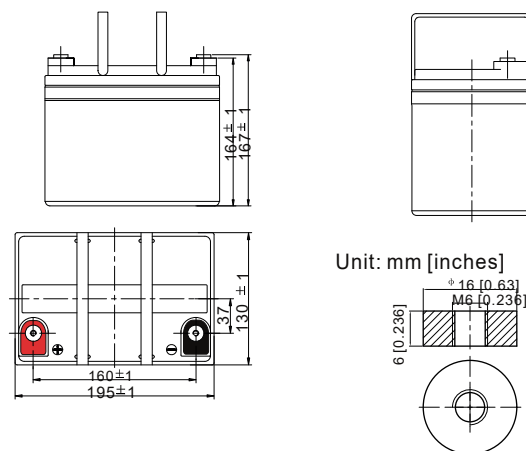
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	195±2 / 7.68
	Width (mm / inch)	130 ± 1 / 5.12
	Height (mm / inch)	164± 1/ 6.46
	Total Height (mm / inch)	167± 1/ 6.57
Approx. Weight	(Kg / lbs)	11.2 / 24.7
Design Life	10 -12 years (20°C)	
Terminal	M6	
Container Material	ABS	
Rated Capacity	35.0 Ah /1.75 A	(20hr, 1.75V / cell, 25°C / 77°F)
	33.0 Ah /3.30A	(10hr, 1.75V / cell, 25°C / 77°F)
	28.6 Ah /5.73 A	(5hr, 1.75V / cell, 25°C / 77°F)
	20.3 Ah / 20.3A	(1hr, 1.60V / cell, 25°C / 77°F)
Max. Discharge Current	495A (5s)	
Internal Resistance	Approx 11.0 mΩ	
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 7.8A.	
	Voltage: 14.4V-15.0V at 25°C (77°F) Temp.	
	Coefficient: -30mV/°C	
Standby Use	Initial Charging Current less than 9.9	
	Current 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 Long Life 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.	

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

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	54.4	42.9	29.2	17.6	8.53	5.58	3.30	1.75
1.75V	59.8	46.9	30.3	18.4	8.69	5.73	3.33	1.77
1.70V	65.1	50.0	31.5	19.2	8.93	5.87	3.37	1.80
1.67V	70.3	53.2	33.3	19.6	9.31	6.03	3.44	1.82
1.60V	76.3	56.9	35.1	20.3	9.60	6.23	3.47	1.83

Dimensions and Terminal (units: mm)



Applications

- UPS and EPS
- Emergency light
- Railway signal and aircraft signal system
- Marine and power stations
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply. DC power supply

Certifications

ISO 9001
ISO 14001

CE UL IEC

Discharge Current vs. Discharge Voltage

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

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

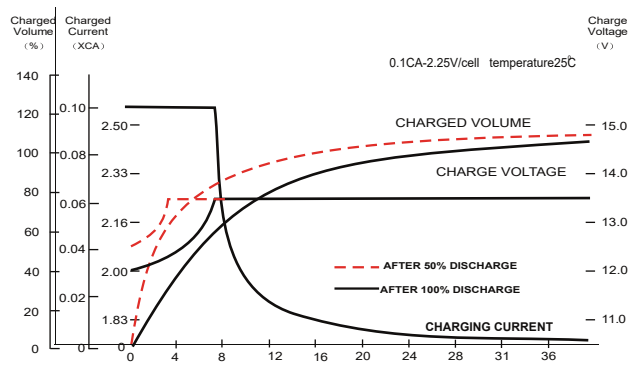
Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	101.2	80.5	55.8	34.3	16.8	11.1	6.64	3.52
1.75V	109.4	86.9	57.5	35.7	17.1	11.3	6.69	3.55
1.70V	116.6	91.5	59.5	36.8	17.5	11.6	6.76	3.61
1.65V	124.7	96.5	62.2	37.7	18.2	11.9	6.88	3.66
1.60V	132.4	101.6	65.3	38.9	18.2	12.2	6.95	3.67

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

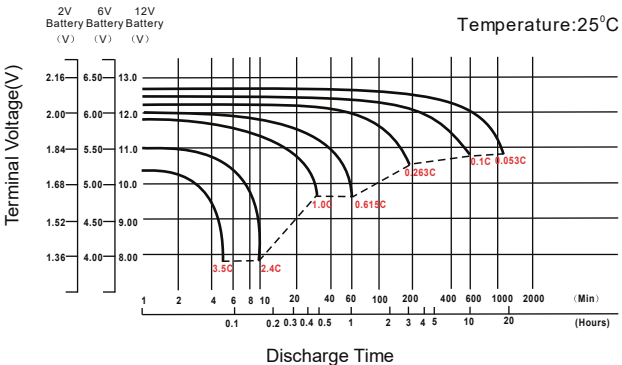
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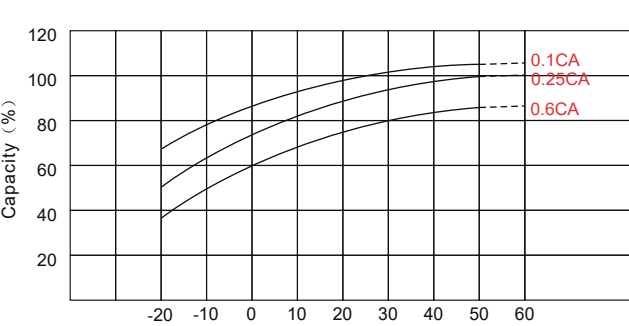
Charging Characteristics (float use)



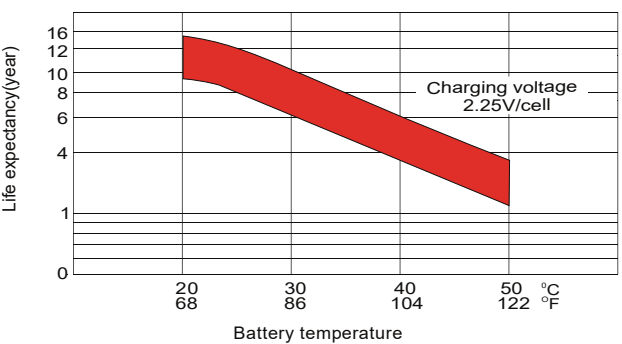
Discharge Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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

