KBL12650 12V 65Ah

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.

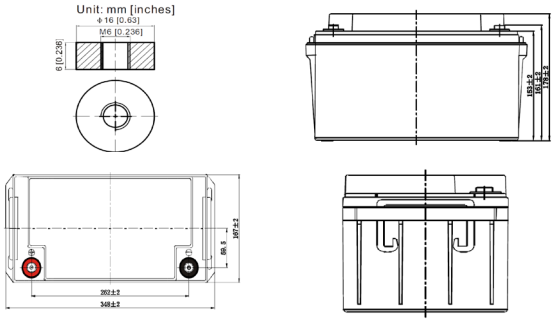
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	348/ 13.70
	Width (mm / inch)	167 / 6.57
	Height (mm / inch)	178 / 7.01
	Total Height (mm / inch)	178 / 7.01
Approx. Weight	(Kg / lbs)	21.0 / 46.3
Design Life	11 years	
Terminal	M6	
Container Material	ABS	
Rated Capacity	69.6Ah / 3.48A	(20hr, 1.80V / cell, 25ºC / 77ºF)
	65.0Ah / 6.50A	(10hr, 1.80V / cell, 25ºC / 77ºF)
	56.5Ah / 11.3A	(5hr, 1.75V / cell, 25ºC / 77ºF)
	40.3Ah / 40.3A	(1hr, 1.60V / cell, 25ºC / 77ºF)
Max. Discharge Current	780A (5s)	
Internal Resistance	Approx 7.3mΩ	
Operating Temp.Range	Discharge : -15 ~ 50ºC (5 ~ 122ºF)	
	Charge : 0 ~ 40ºC (32 ~ 104ºF)	
	Storage : -15 ~ 40ºC (5 ~104ºF)	
Nominal Operating Temp. Range	25 ± 3ºC (77 ± 5ºF)	
Cycle Use	Initial Charging Current less than 19.5A.	
	Voltage: 14.4VPC ~ 15.0VPC at 25ºC (77ºF)	
	Temp. Coefficient: -30mV/ºC	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5VPC ~ 13.8VPC at 25ºC (77ºF)	
	Temp. Coefficient: -20mV/ºC	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	Fully charged Kaise Long Life Series batteries may be stored for up to 6 months at 25ºC (77ºF) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Constant Current Discharge (Amperes) at 77ºF (25ºC)

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	87.0	71.8	51.1	32.8	16.3	11.1	6.50	3.48
1.75V	98.8	80.9	55.5	35.8	16.9	11.3	6.67	3.57
1.70V	111.6	89.8	60.6	37.8	17.8	12.0	6.93	3.66
1.65V	119.9	96.2	64.0	39.1	18.5	12.3	7.13	3.77
1.60V	131.9	105.3	68.3	40.3	19.0	12.6	7.27	3.83

Dimensions and Terminal (Unit: mm (inches))



Applications

UPS
Telecomunications equipment
Solar energy systems
Cable TV
Power station
Marine equipment
Military equipment
Emergency power systems
Railway systems

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)	I ≤ 0,1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA

Constant Power Discharge (Watts per cell) at 77ºF (25ºC)

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	160.6	133.7	97.0	63.6	31.8	21.8	13.0	6.95
1.75V	179.5	148.8	104.5	69.0	33.0	22.2	13.3	7.12
1.70V	198.2	162.8	113.5	72.8	34.6	23.5	13.8	7.29
1.65V	210.9	173.0	118.8	74.7	35.9	24.1	14.2	7.51
1.60V	226.8	186.4	125.8	76.6	36.6	24.6	14.4	7.62

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

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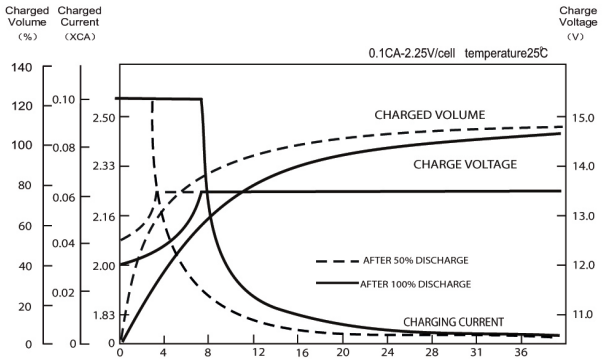
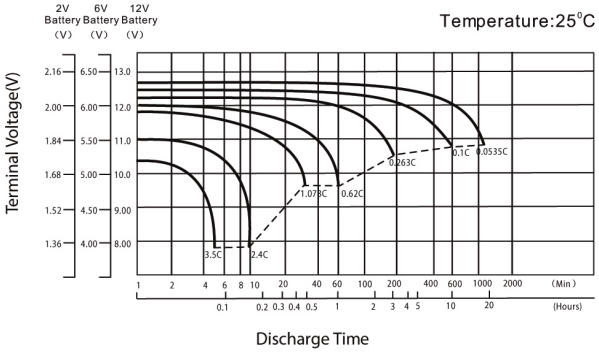
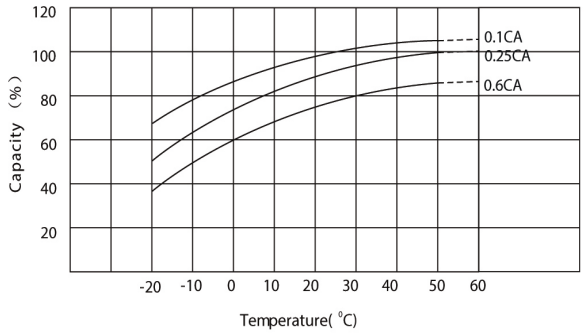
Charging Characteristics (float use)



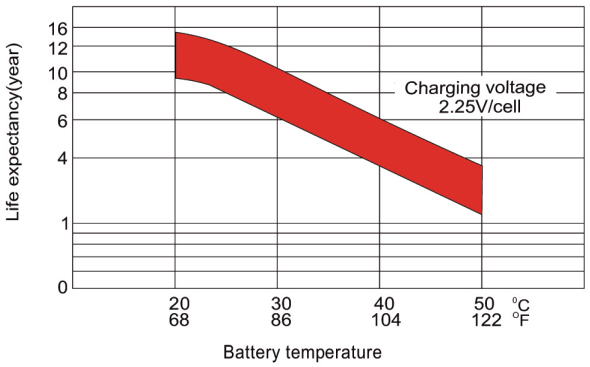
Discharge Characteristics



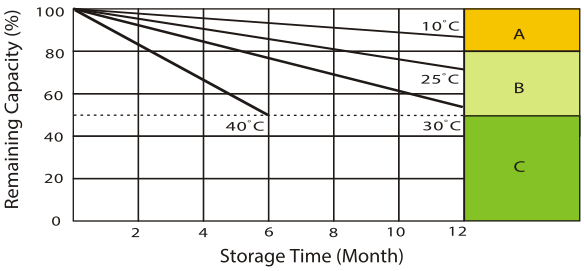
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



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.
3. Charged for 8-10 hours ar limited current 0.05 CA.

C 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.

2018/V1/L