

KBL121200 12V 120Ah



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.

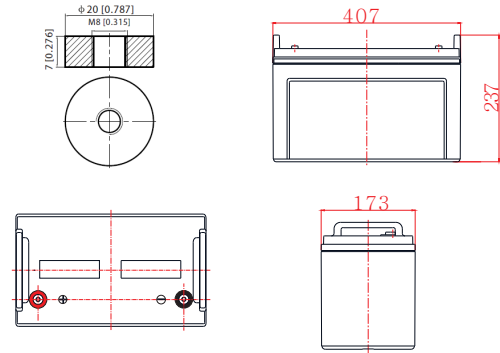
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	407 / 16.0
	Width (mm / inch)	173 / 6.81
	Height (mm / inch)	237 / 9.33
	Total Height (mm / inch)	237 / 9.33
Approx. Weight (Kg / lbs)	33.5 / 73.9	
Design Life	10 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	121Ah / 12.1A	(10hr, 1.80V / cell, 25°C / 77°F)
	106.5Ah / 21.3A	(5hr, 1.75V / cell, 25°C / 77°F)
	71.9Ah / 71.9A	(1hr, 1.70V / cell, 25°C / 77°F)
Max. Discharge Current	1440A (5s)	
Internal Resistance	Approx 4.2 mΩ	
Operating Temp. Range	Discharge : -20 ~ 50°C (-4 ~ 122°F)	
	Charge : -20 ~ 50°C (-4 ~ 122°F)	
	Storage : -20 ~ 50°C (-4 ~ 122°F)	
Cycle Use	Initial Charging Current less than 30.0A.	
	Voltage: 14.4V ~ 15.0V at 25°C (77°F)	
	Temp. Coefficient: -30mV/°C	
Standby Use	Initial Charging Current less than 30.0A.	
	Voltage: 13.5V ~ 13.8V at 25°C (77°F)	
	Temp. Coefficient: -18mV/°C	
Capacity affected by	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 25°C (77°F)

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	222	175	109	67.4	30.3	20.7	12.1	6.42
1.75V	235	185	113	69.7	31.3	21.3	12.2	6.46
1.70V	245	192	116	71.9	31.5	21.5	12.3	6.50
1.65V	257	199	119	73.7	31.7	21.6	12.3	6.52
1.60V	265	204	122	74.9	31.9	21.7	12.3	6.53

Dimensions and Terminal (Unit: mm (inches))



Applications

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

Certifications

ISO 9001 / ISO 14001



Discharge Current vs. Discharge Voltage

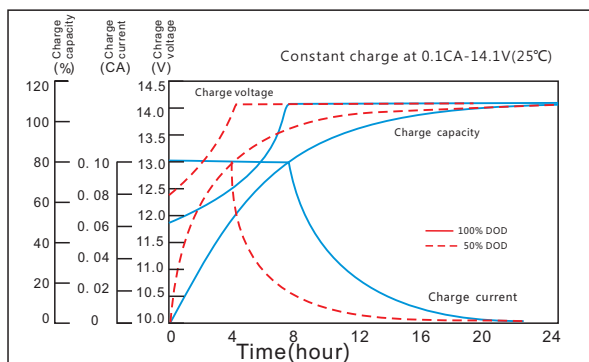
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	I ≤ 0.1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA

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

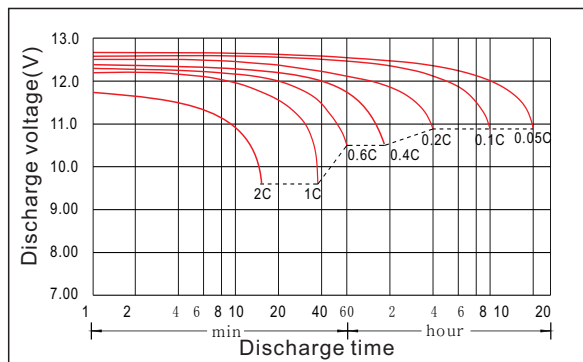
Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	399	321	203	128	59.4	40.7	24.1	12.8
1.75V	423	338	211	132	61.3	42.1	24.2	12.9
1.70V	442	350	216	137	61.8	42.3	24.4	13.0
1.65V	461	364	223	140	62.1	42.6	24.6	13.0
1.60V	476	373	228	142	62.5	42.9	24.6	13.1

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

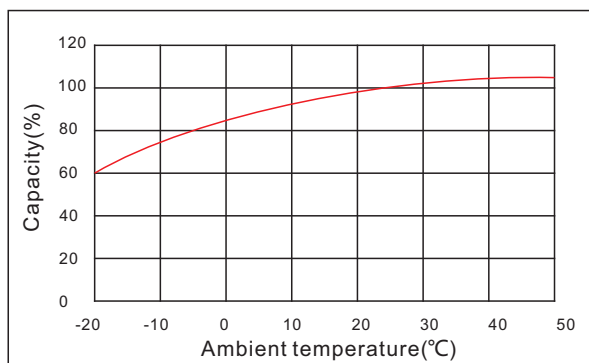
Charging Characteristics (float use)



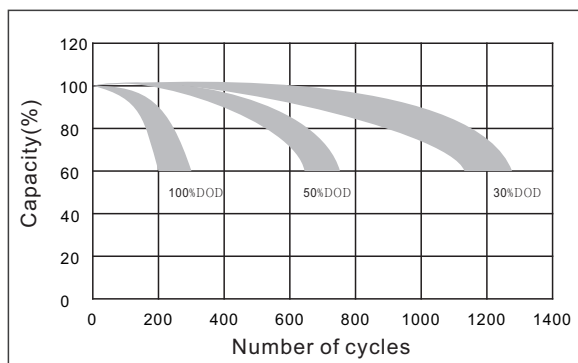
Discharge Characteristics



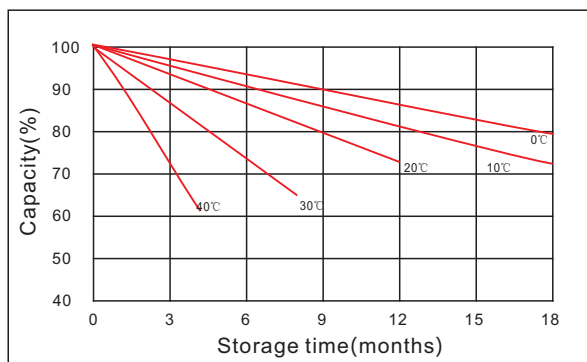
Temperature Effects in Relation to Battery Capacity



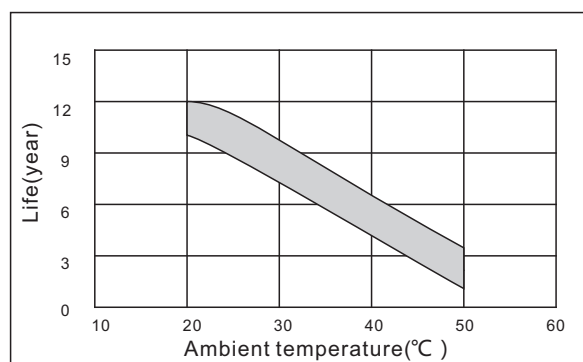
Cycle Life in Relation to Depth of Discharge



Curves of Self-Discharge



Effect of Temperature on Long Term Float Life



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

