

KBL122000 12V 200Ah



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.

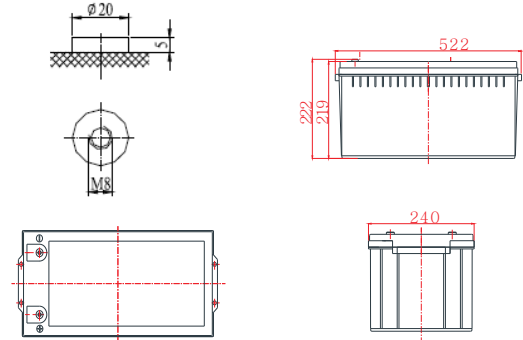
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	522 / 20.55
	Width (mm / inch)	240 / 9.45
	Height (mm / inch)	219 / 8.62
	Total Height (mm / inch)	222 / 8.74
Approx. Weight (Kg / lbs)	57.0 / 126	
Design Life	10 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	200Ah / 20.0A	(10hr, 1.70V / cell, 25°C / 77°F)
	184Ah / 36.8A	(5hr, 1.70V / cell, 25°C / 77°F)
	133Ah / 13.3A	(1hr, 1.70V / cell, 25°C / 77°F)
Max. Discharge Current	2400A (5s)	
Internal Resistance	Approx 3.0 mΩ	
Operating Temp. Range	Discharge : -20 ~ 50°C (-4 ~ 122°F)	
	Charge : -10 ~ 50°C (14 ~ 122°F)	
	Storage : -20 ~ 50°C (-4 ~ 122°F)	
Cycle Use	Voltage: 14.4V ~ 15.0V at 25°C (77°F)	
	Temp. Coefficient: -30mV/°C	
Max. Discharge Current	Max. 50A	
Standby Use	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	15min	30min	1h	3h	5h	10h	20h
1.80V	324	211	128	53.7	35.5	20.0	10.7
1.75V	348	221	131	54.1	36.5	20.2	10.8
1.70V	359	222	133	54.7	36.8	20.4	10.8
1.65V	367	226	134	55.5	37.2	20.6	10.9
1.60V	379	230	135	56.1	37.6	20.8	10.9

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

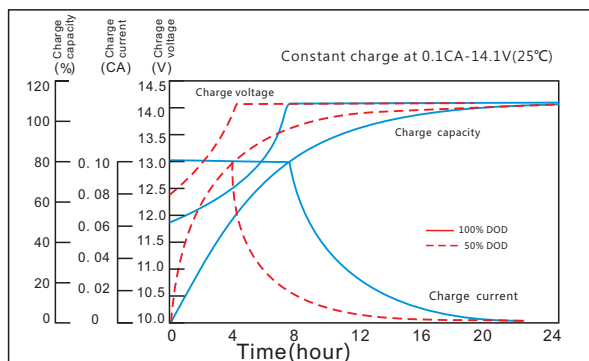
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	$I \leq 0.1CA$	$0.25CA \geq I > 0.1CA$	$0.55CA \geq I > 0.25CA$	$I > 0.55CA$

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

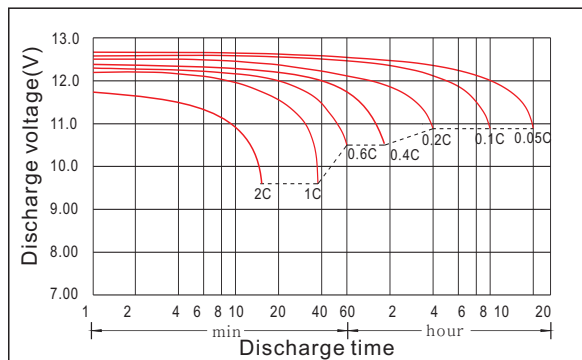
Volts/cell	15min	30min	1h	2h	3h	5h	10h
1.80V	608	401	247	144	104	69.2	38.4
1.75V	643	411	249	144	104	70.0	38.8
1.70V	647	413	251	145	105	70.4	39.2
1.65V	655	413	253	146	105	71.0	39.6
1.60V	667	417	255	146	107	71.3	40.0

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

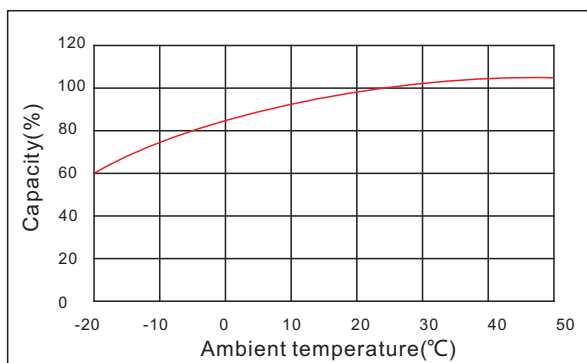
Charging Characteristics



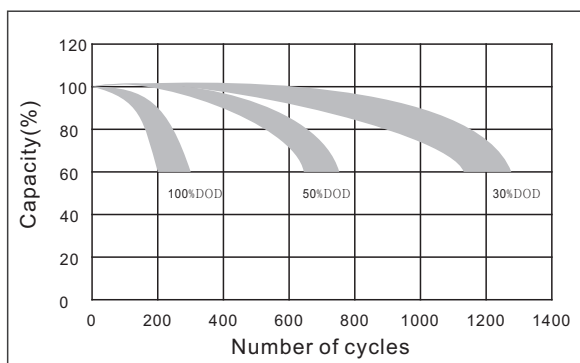
Discharge characteristic



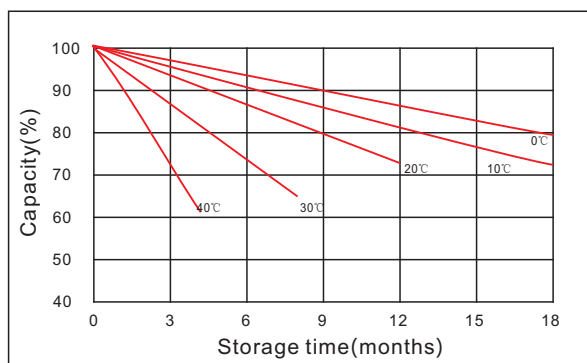
Temperature Effects in Relation to Battery Capacity



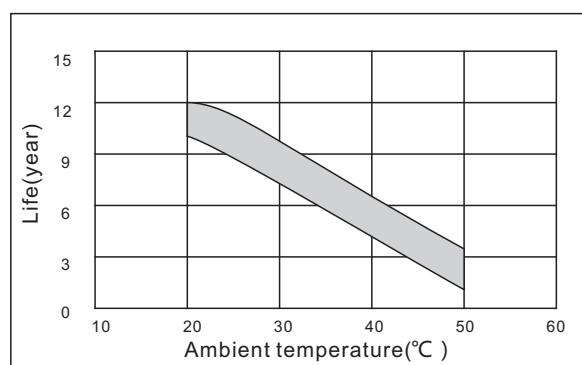
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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

