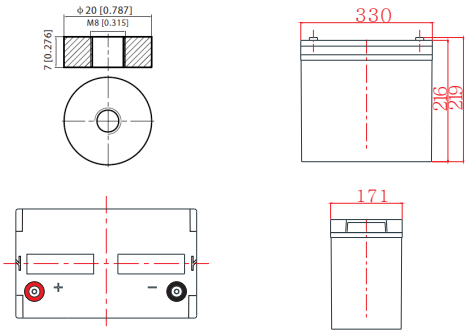
KBL121000 12V 100Ah

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)	330 / 12.99
	Width (mm / inch)	171 / 6.73
	Height (mm / inch)	216 / 8.50
	Total Height (mm / inch)	219 / 8.62
Approx. Weight	(Kg / lbs)	29.5 / 65.0
Design Life	10 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	100.0 Ah / 10.0A	(10hr ,1.80V / cell, 25ºC / 77ºF)
	91.0 Ah / 18.2A	(5hr, 1.75V / cell, 25ºC / 77ºF)
	66.4 Ah / 66.4A	(1hr, 1.70V / cell, 25ºC / 77ºF)
Max. Discharge Current	1200A (5s)	
Internal Resistance	Approx 5.0 mΩ	
Operating Temp.Range	Discharge : -20 ~ 50ºC (-4 ~ 122ºF)	
	Charge : -20 ~ 50ºC (-4 ~ 122ºF)	
	Storage : -20 ~ 50ºC (-4 ~ 122ºF)	
Cycle Use	Initial Charging Current less than 25A.	
	Voltage: 14.4V ~ 15.0V at 25ºC (77ºF)	
	Temp. Coefficient: -30mV/ºC	
Standby Use	Initial Charging Current less than 25A.	
	Voltage: 13.5V~13.8V at 25º C (77ºF)	
	Temp. Coefficient: -18mV/ºC	
Capacity affected by	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.	

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

Volts/cell	15min	30min	1h	3h	5h	10h	20h
1.80V	162	105	63.8	26.9	17.7	10.0	5.35
1.75V	174	110	65.5	27.0	18.2	10.1	5.38
1.70V	180	111	66.4	27.3	18.4	10.2	5.40
1.65V	184	113	66.9	27.7	18.6	10.3	5.43
1.60V	189	115	67.3	28.0	18.8	10.4	5.46

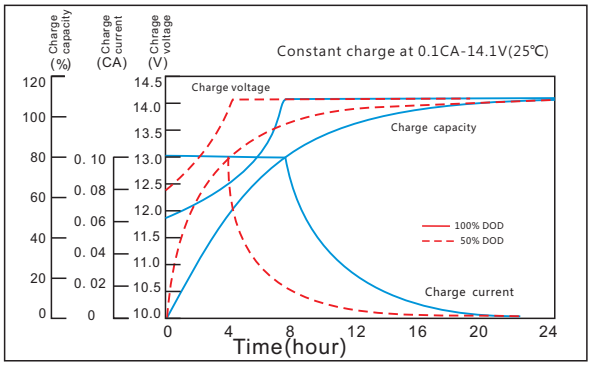
Constant Power Discharge (Watts per cell) at 25ºC (77ºF)

Volts/cell	15min	30min	1h	3h	5h	10h	20h
1.80V	304	201	123	51.8	34.6	19.2	10.6
1.75V	322	205	124	52.0	35.0	19.4	10.7
1.70V	324	206	125	52.3	35.2	19.6	10.7
1.65V	328	206	126	52.6	35.5	19.8	10.8
1.60V	333	208	127	53.3	35.7	20.0	10.8

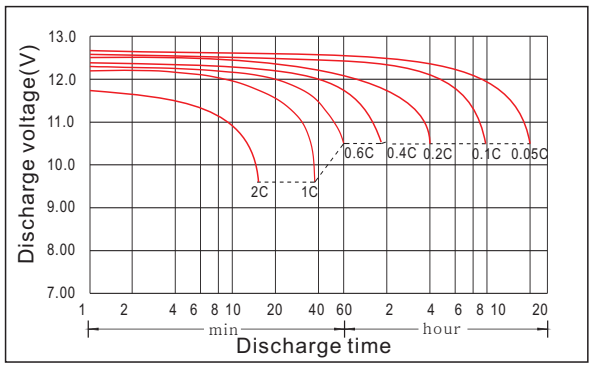
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KBL121000 12V 100Ah

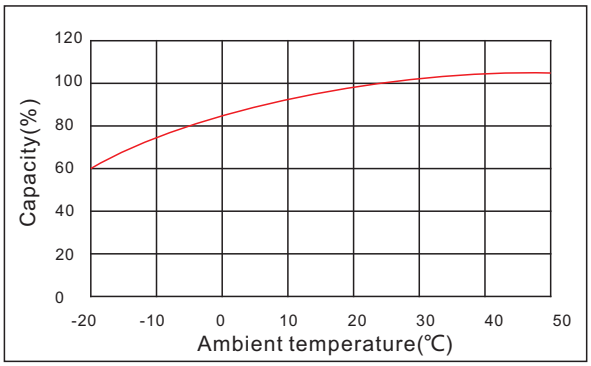
Charging Characteristics (float use)



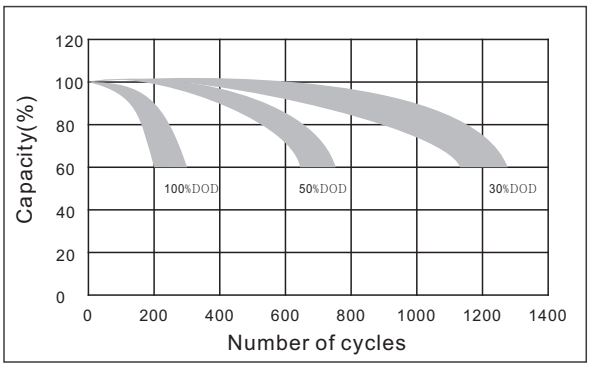
Discharge Characteristics



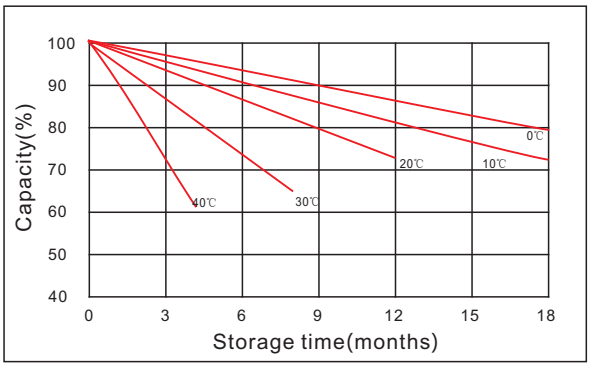
Temperature Effects in Relation to Battery Capacity



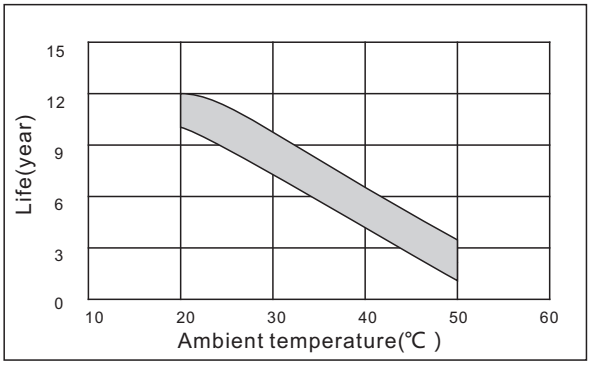
Cycle Life in Relation to Depth of Discharge



Curves of Self-Discharge



Effect of Temperature on Long Term Float Life



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

2026/V/K

Contacto
customer.energy@tempelgroup.com
www.tempelgroup.com

Tempel Group en el mundo
HOUSTON · BARCELONA · MADRID · VALENCIA · BILBAO · SEVILLA · LISBOA · PORTO · ROMA · BUENOS AIRES · LIMA
SANTIAGO DE CHILE · BOGOTÁ · SÃO PAULO · CIUDAD DE MÉXICO · MONTERREY · CIUDAD DE PANAMÁ · MONTEVIDEO · QUITO