MKBC121000 12V 100Ah

The Kaise cyclic batteries were developed for deep discharges with very heavy non-porous battery plates to withstand major discharging and charging cycles (deep cycle). These batteries use different chemistry combinations for the plates with active paste material and a slightly stronger than normal electrolyte, which allows for a much longer life in deep cycle applications.



Performance Characteristics

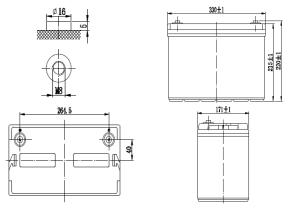
Nominal Voltage	12V	
Dimensions	Length (mm / inch)	330 / 12.99
	Width (mm / inch)	171 / 6.73
	Height (mm / inch)	215 / 8.46
	Total Height (mm / inch)	220 / 8.66
Approx Weight	(Kg / lbs)	32 / 70.5
Design Life	10 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	96.5Ah / 9.65A	(10hr, 1.70V / cell, 25°C / 77°F)
	60.6Ah / 60.6A	(1hr, 1.70V / cell, 25°C / 77°F)
	32Ah / 192A	(10min, 1.70V / cell, 25°C / 77°F)
Max. Discharge Current	900A (5s)	
Internal Resistance	Approx 5mΩ	
Operating Temp. Range	Discharge : -15 ~ 55°C (5	5~131°F)
	Charge : 0 ~ 40°C (32 ~ 1	04ºF)
	Storage : -15 ~ 40°C (5 ~	- 104ºF)
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
Cycle Use	Initial Charging Current le	ess than 20A
	Voltage: 2.30VPC~ 2.35VPC	C at 25°C (77°F)
	Temp. Coefficient: -30mV/ ^c	
Standby Use	Initial Charging Current le	
	Voltage: 2.25VPC ~ 2.30VF	PC at 25°C (77°F)
	Temp. Coefficient: -20mV/ ^c	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 Deep	Cycle Series batteries may be
	stored for up to 6 months	s at 25°C (77°F) and then a
	freshening charge is requ	ired. For higher temperatures the
	time interval will be shor	ter.

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

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	168	139	88.7	56.5	25.1	17.1	9.50	5.00
1.75V	180	148	90.7	59.6	26.6	17.4	9.60	5.05
1.70V	192	159	93.6	60.6	26.9	17.9	9.65	5.10
1.60V	220	180	105	65.2	27.6	18.9	9.75	5.20



Dimensions and Terminal (Unit: mm (inches))



Applications

Solar power systems Electric wheel chairs Golf carts Maritime equipment Power plants Railway systems Telecommunications systems Cable TV systems Emergency power systems

Certifications

ISO 9001:2008 ISO 14001:2008







Discharge Current vs. Discharge Voltage

Final discharge 1,8 voltage V/CELL		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	

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

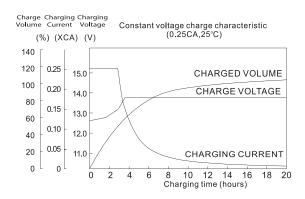
Volts/cell	10min	15min	30min	1h	2h	3h	5h
1.80V	316	271	167	102	61.7	48.0	33.8
1.75V	339	285	173	109	63.7	48.6	34.2
1.70V	346	290	178	112	65.9	50.4	34.8
1.60V	376	311	194	122	69.7	52.3	35.6

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

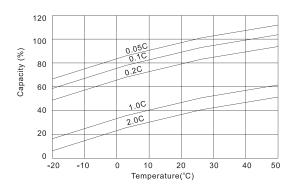
MKBC121000 12V 100Ah



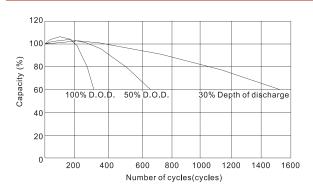
Charging Characteristics (standby use)



Temperature Effects in Relation to Battery Capacity

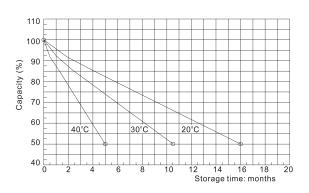


Cycle Life in Relation to Depth of Discharge



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

Self Discharge Characteristics



Temperature Effects on Float Life

