KBC12330 12V 33Ah



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.



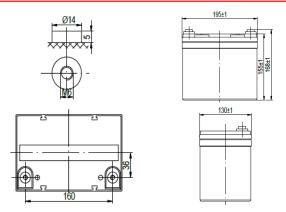
Performance Characteristics

Nominal Voltage	12V				
Dimensions	Length (mm / inch)	195 / 7.68			
	Width (mm / inch)	130 / 5.12			
	Height (mm / inch)	155 / 6.10			
	Total Height (mm / inch	n) 168 / 6.61			
Approx Weight	(Kg / lbs)	11.0 / 24.3			
Design Life	10 years				
Terminal	M6				
Container Material	ABS				
Rated Capacity	32.2Ah / 3.22A	(10hr, 1.70V / cell, 25ºC / 77ºF)			
	20.9Ah / 20.9A	(1hr, 1.70V / cell, 25ºC / 77ºF)			
	11.68Ah / 70.1A	(10min, 1.70V / cell, 25ºC / 77ºF)			
Max. Discharge Current	330A (5s)				
Internal Resistance	Approx 10m Ω				
Operating Temp. Range	Discharge : -15 ~ 55°C (5 ~131°F)				
	Charge : 0 ~ 40°C (32 ~ 104°F)				
	Storage : -15 ~ 40°C (5 ~ 104°F)				
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)				
Cycle Use	Initial Charging Current less than 6.6A				
	Voltage: 2.30VPC~ 2.35VPC at 25°C (77°F)				
	Temp. Coefficient: -30m\	//ºC			
Standby Use	Initial Charging Current less than 6.6A				
	Voltage: 2.25VPC ~ 2.30VPC at 25ºC (77ºF)				
	Temp. Coefficient: -20m\	//ºC			
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 at 25°C (77°F) and then a				
	freshening charge is required. For higher temperatures the				
	time interval will be sh	orter.			

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

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	57.6	48.0	31.1	19.5	8.10	5.47	3.14	1.65
1.75V	66.2	50.4	32.0	20.0	8.17	5.55	3.18	1.68
1.70V	70.1	52.9	32.4	20.9	8.37	6.12	3.22	1.70
1.60V	77.0	59.7	36.1	22.0	8.99	6.27	3.28	1.74

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 voltage V/CELL	1,8	1,75	1,7	1,6
Discharge current (A)	≤ 0,1CA	$0.25CA \ge I > 0.1CA$	0.55 CA \ge I > 0.25 CA	> 0.55CA

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

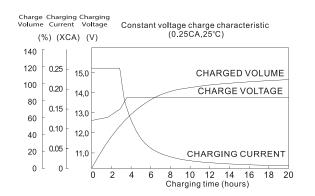
Volts/cell	10min	15min	30min	1h	2h	3h	5h
1.80V	111	95.0	59.5	37.7	20.7	15.1	11.0
1.75V	127	99.9	61.1	38.5	21.5	15.8	11.2
1.70V	131	104	62.9	39.3	22.3	16.6	11.4
1.60V	144	114	70.6	40.3	23.0	17.2	12.1

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

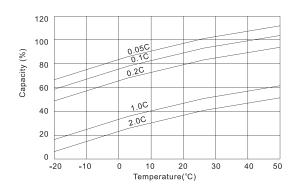
KBC12330 12V 33Ah



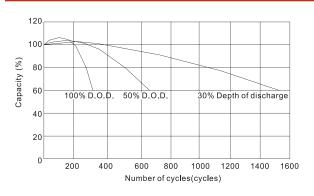
Charging Characteristics (standby use)



Temperature Effects in Relation to Battery Capacity

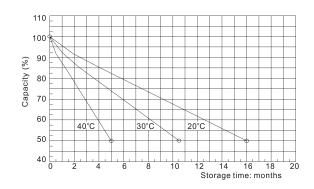


Cycle Life in Relation to Depth of Discharge



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

Self Discharge Characteristics



Temperature Effects on Float Life

