

KBC12650 12V 65Ah



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.

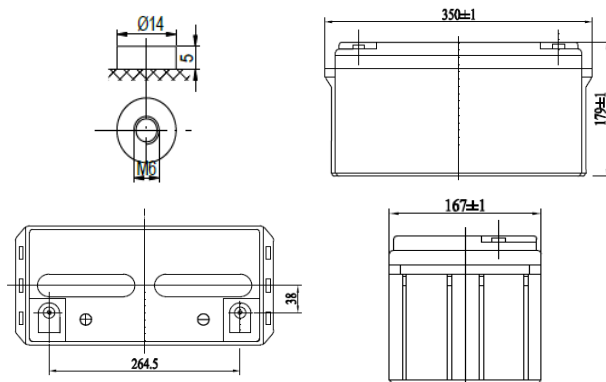
Performance Characteristics

Nominal Voltage	12V		
Dimensions	Length (mm / inch)	350 / 13.78	
	Width (mm / inch)	167 / 6.57	
	Height (mm / inch)	179 / 7.05	
	Total Height (mm / inch)	179 / 7.05	
Approx Weight	(Kg / lbs)	23.4 / 51.5	
Design Life	10 years		
Terminal	M6		
Container Material	ABS		
Rated Capacity	61.7Ah / 6.17A	(10hr, 1.70V / cell, 25°C / 77°F)	
	40.9Ah / 40.9A	(1hr, 1.70V / cell, 25°C / 77°F)	
	23.0Ah / 138A	(10min, 1.70V / cell, 25°C / 77°F)	
Max. Discharge Current	650A (5s)		
Internal Resistance	Approx 5.4mΩ		
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 13A		
	Voltage: 2.30VPC ~ 2.35VPC at 25°C (77°F)		
	Temp. Coefficient: -30mV/°C		
Standby Use	Initial Charging Current less than 13A		
	Voltage: 2.25VPC ~ 2.30VPC at 25°C (77°F)		
	Temp. Coefficient: -20mV/°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 at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.		

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

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	115	97.1	60.3	37.7	16.1	11.0	6.07	3.25
1.75V	127	105	64.6	40.3	16.5	11.2	6.12	3.28
1.70V	138	111	64.7	40.9	16.7	11.4	6.17	3.30
1.60V	154	121	68.8	43.5	17.5	12.0	6.25	3.34

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

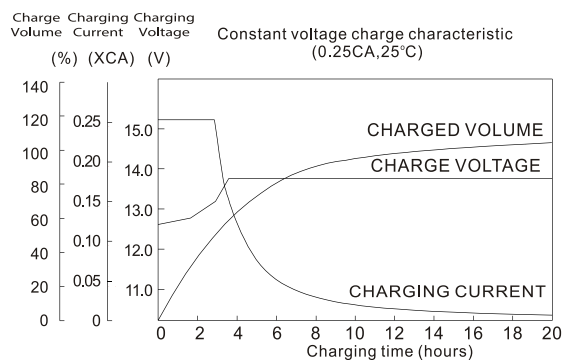
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	$I \leq 0.1CA$	$0.25CA \geq I > 0.1CA$	$0.55CA \geq I > 0.25CA$	$I > 0.55CA$

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

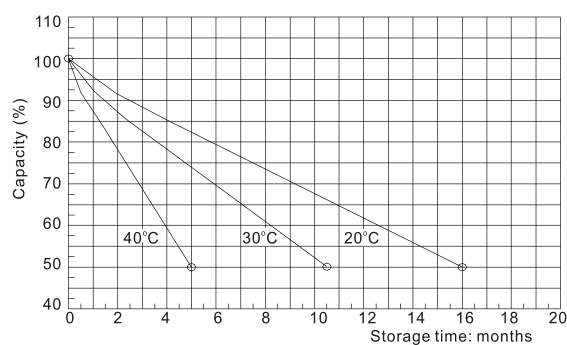
Volts/cell	10min	15min	30min	1h	2h	3h	5h
1.80V	212	178	111	73.9	42.0	31.4	21.6
1.75V	228	187	113	74.3	42.6	32.1	21.9
1.70V	242	191	115	76.1	44.0	33.4	22.3
1.60V	271	216	129	79.6	45.5	34.2	22.7

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

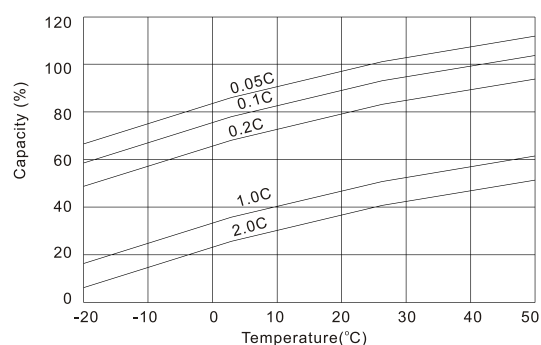
Charging Characteristics (standby use)



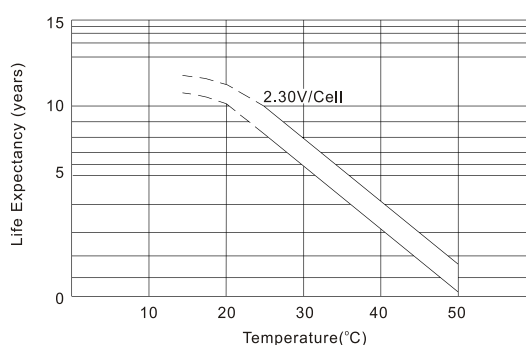
Self Discharge Characteristics



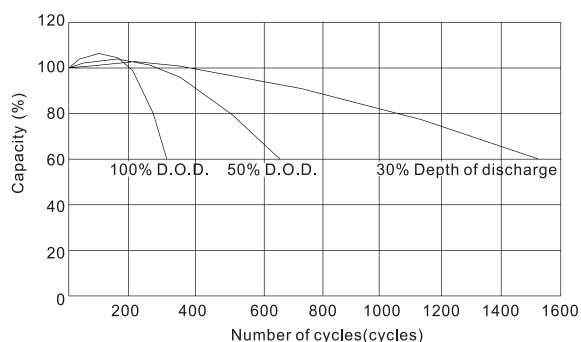
Temperature Effects in Relation to Battery Capacity



Temperature Effects on Float Life



Cycle Life in Relation to Depth of Discharge



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

