

KBC121340 12V 134Ah



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.



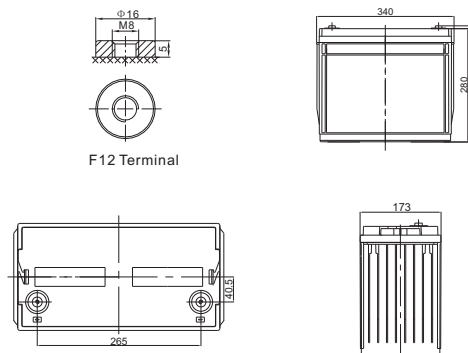
Performance Characteristics

Nominal Voltage	12V		
Dimensions	Length (mm / inch)	340 / 13.4	
	Width (mm / inch)	173 / 6.81	
	Height (mm / inch)	280 / 11.0	
	Total Height (mm / inch)	287 / 11.3	
Approx Weight	(Kg / lbs)	39.0 / 85.9	
Design Life	12 years		
Terminal	M8		
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.		
Rated Capacity	134Ah / 6.700A	(20hr, 1.70V / cell, 25°C / 77°F)	
	115.4Ah / 23.08A	(5hr, 1.75V / cell, 25°C / 77°F)	
	76.09Ah / 76.09A	(1hr, 1.70V / cell, 25°C / 77°F)	
Max. Discharge Current	1340A (5s)		
Internal Resistance	Approx 4.4mΩ		
Operating Temp. Range	Discharge : -20 ~ 60°C		
	Charge : 0 ~ 50°C		
	Storage : -20 ~ 60°C		
Nominal Operating Temp. Range	25 ± 5°C (77 ± 41°F)		
Cycle Use	Initial Charging Current less than 40.2A		
	Voltage: 14.6V~14.8V at 25°C (77°F)		
	Temp. Coefficient: -4mV/°C		
Standby Use	Initial Charging Current less than 40.2A		
	Voltage: 13.6V ~ 13.8V at 25°C (77°F)		
	Temp. Coefficient: -3mV/°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 25°C (77°F)

Volts/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.80V	220.3	183.4	121.3	70.42	33.50	22.78	12.76	6.635
1.75V	242.1	200.3	125.9	73.70	34.14	23.08	12.89	6.700
1.70V	263.9	213.8	131.1	76.09	35.05	23.74	13.02	6.821
1.65V	284.7	227.4	138.2	78.61	36.59	24.40	13.27	6.908
1.60V	309.1	243.1	145.9	81.38	37.75	25.19	13.40	6.945

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

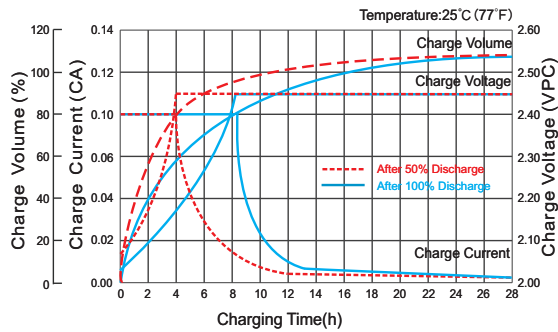
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	$I \leq 0.1CA$	$0.25CA \geq I > 0.1CA$	$0.55CA \geq I > 0.25CA$	$I > 0.55CA$

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

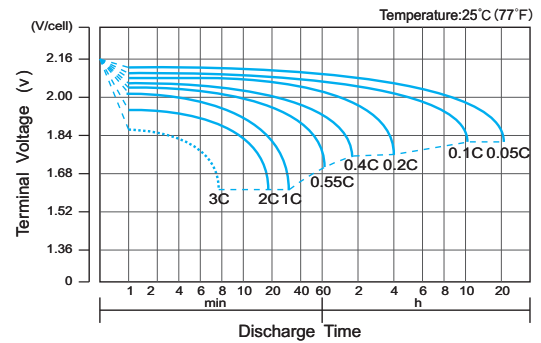
Volts/cell	10min	15min	30min	1h	2h	3h	5h	10h
1.80V	405.5	340.5	230.2	135.9	81.94	65.20	43.61	25.02
1.75V	440.2	368.4	237.9	141.7	83.85	65.56	44.20	25.27
1.70V	473.0	390.3	246.5	145.8	86.94	67.22	45.23	25.52
1.65V	506.8	412.3	259.0	150.2	89.16	69.90	46.39	26.03
1.60V	526.3	424.1	265.2	152.8	91.64	71.69	47.68	26.28

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

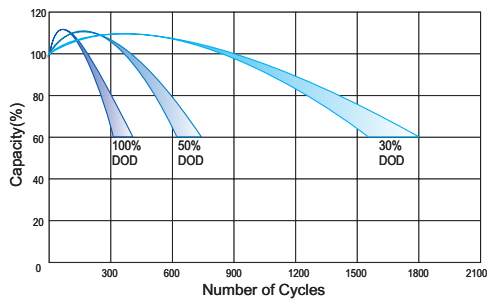
Charging Characteristics (standby use)



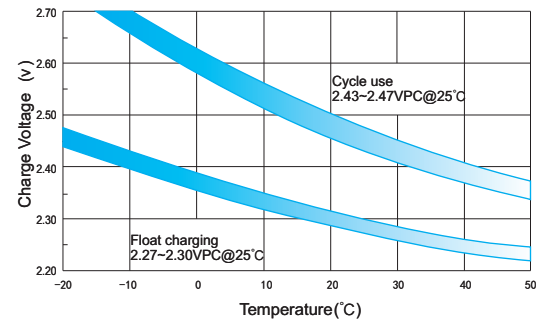
Discharge Characteristics Curve



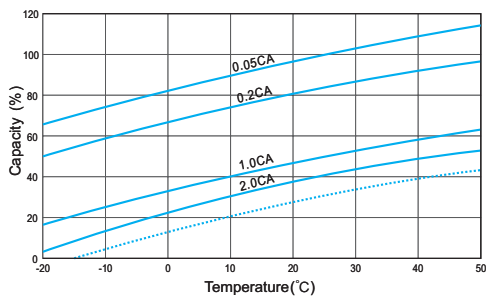
Cycle Life in Relation to Depth of Discharge



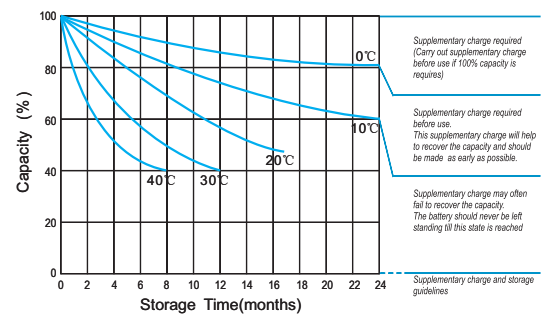
Relationship Between Charging Voltage and Temperature



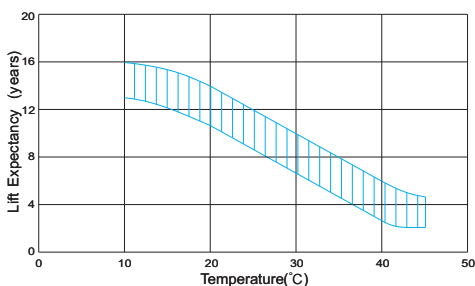
Temperature Effects in Relation to Battery Capacity



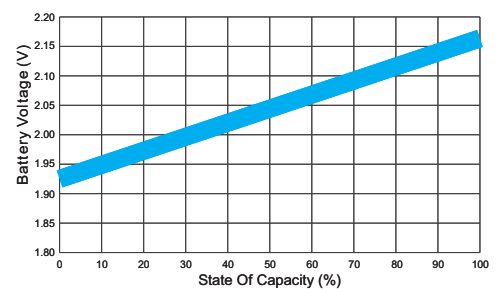
Storage Characteristics



Effect Of Temperature On Long Term Life



Relationship of OCV And State of Charge (20°C)



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

