

KBC121500 12V 150Ah



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.

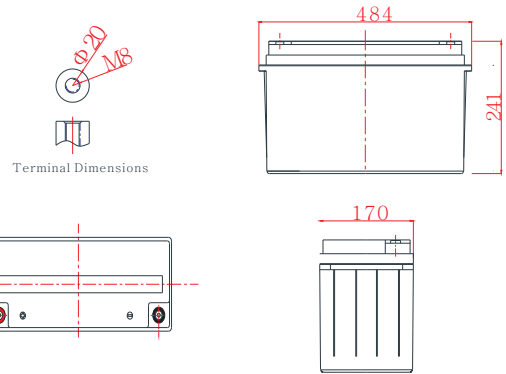
Performance Characteristics

Nominal Voltage	12V		
Dimensions	Length (mm / inch)	484 / 19.1	
	Width (mm / inch)	170 / 6.69	
	Height (mm / inch)	241 / 9.49	
	Total Height (mm / inch)	241 / 9.49	
Approx Weight	(Kg / lbs)	42.5/ 93.8	
Design Life	10 years		
Terminal	M8		
Container Material	ABS		
Rated Capacity	152.6Ah / 7.63A	(20hr, 1.70V / cell, 25°C / 77°F)	
	115.8Ah / 38.6A	(3hr, 1.75V / cell, 25°C / 77°F)	
	93.3Ah / 93.3A	(1hr, 1.75V / cell, 25°C / 77°F)	
Max. Discharge Current	1800A (5s)		
Internal Resistance	Approx 3.5mΩ		
Operating Temp. Range	Discharge : -20 ~ 50°C (-4 ~ 122°F)		
	Charge : -20 ~ 50°C (-4 ~ 122°F)		
	Storage : -20 ~ 50°C (-4 ~ 122°F)		
Cycle Use	Initial Charging Current less than 48A		
	Voltage: 14.4V- 15.0V at 25°C (77°F)		
	Temp. Coefficient: -30mV/°C		
Standby Use	Initial Charging Current less than 48A		
	Voltage: 13.5V ~13.8V at 25°C (77°F) Temp.		
	Coefficient: -18mV/°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	5min	15min	30min	1h	3h	5h	10h	20h
1.80V	386	231	150	90.9	38.3	25.3	14.3	7.63
1.75V	429	248	157	93.3	38.6	25.9	14.4	7.67
1.70V	467	256	159	95.0	39.0	26.2	14.5	7.70
1.65V	486	261	162	95.0	39.5	26.5	14.7	7.74
1.60V	503	270	164	96.0	39.9	26.8	14.8	7.78

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 / ISO 14001



Discharge Current vs. Discharge Voltage

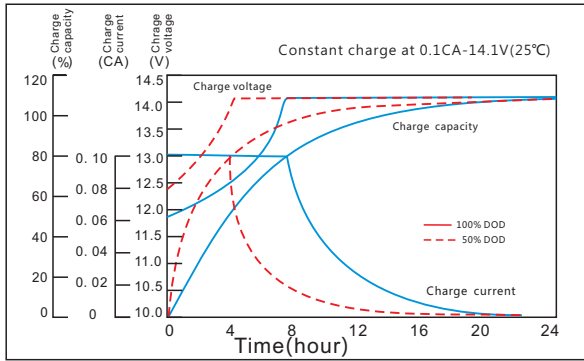
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	$I \leq 0.1CA$	$0.25CA \geq I > 0.1CA$	$0.55CA \geq I > 0.25CA$	$I > 0.55CA$

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

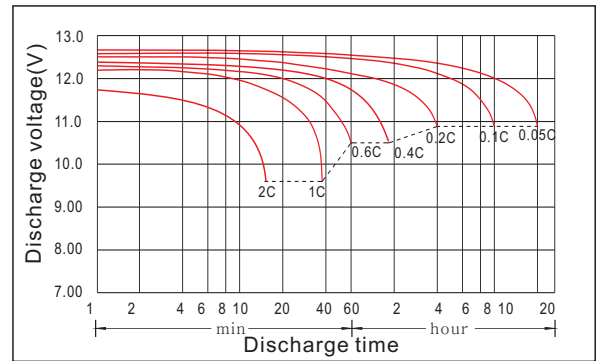
Volts/cell	5min	15min	30min	1h	2h	3h	5h
1.80V	690	433	286	176	103	73.9	49.3
1.75V	751	459	293	178	103	74.2	49.9
1.70V	806	462	295	179	104	74.6	50.2
1.65V	809	466	295	180	104	75.0	50.5
1.60V	842	475	297	181	105	76.0	50.8

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

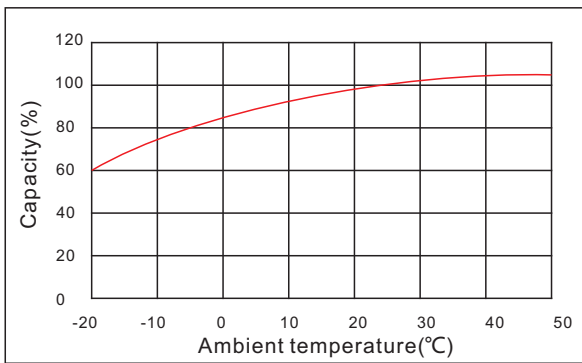
Charging Characteristics



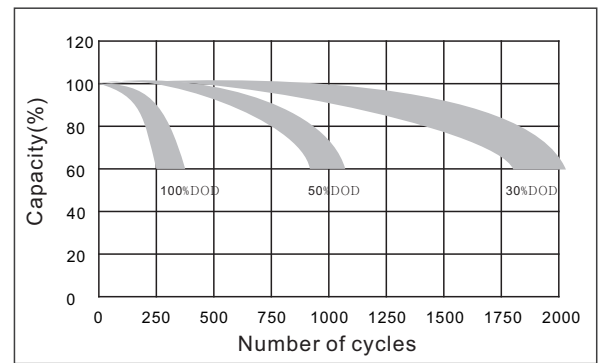
Discharge Characteristics



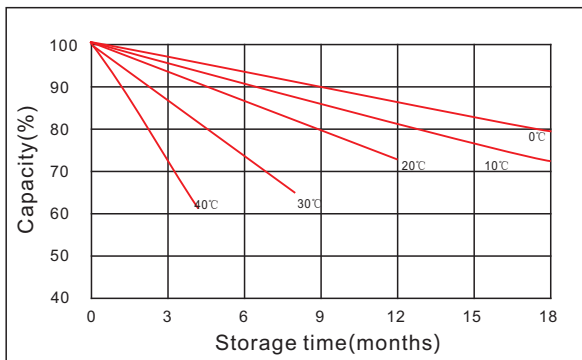
The effect of temperature on capacity



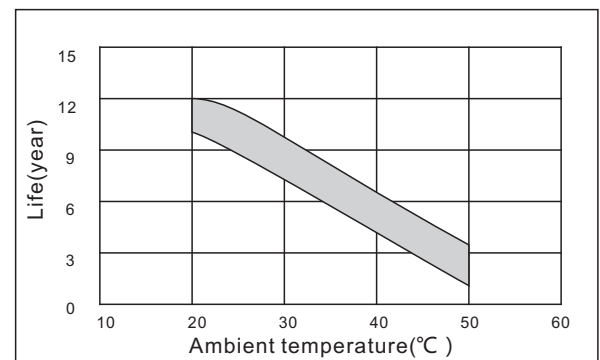
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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

