

# KBASL122500 12V 250Ah



The Kaise Solar range is mainly used in the renewable energies industry, given their optimal performance in cyclic use. With lower acid density, excess of electrolyte and larger distance between plates the batteries maintain a low temperature and also slows down the plate grid corrosion speed. These batteries have a unique plate grid configuration which, alongside the high quality AGM separator and the battery management system, ensures the batteries have a longer service life. The valves were specially designed to control water loss and prevent air and other elements from getting in.



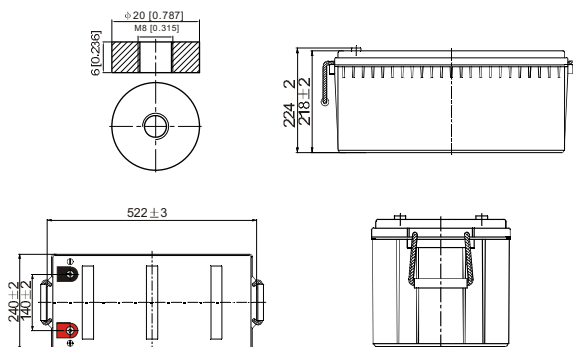
## Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	522±3 / 20.55
	Width (mm / inch)	240±3 / 9.45
	Height (mm / inch)	218±3 / 8.58
	Total Height (mm / inch)	224±3 / 8.81
Approx. Weight	(Kg / lbs) 65.0 / 143.3	
Design Life	8 - 12 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	241.0Ah / 2.41 A	(100hr, 1.60V/cell, 25°C / 77°F)
	200.0Ah / 20.0 A	(10hr, 1.80V/cell, 25°C / 77°F)
	168.0 Ah / 33.6A	(5hr, 1.80V/cell, 25°C / 77°F)
	121.5 Ah / 121.5 A	(1hr, 1.60V/cell, 25°C / 77°F)
	88.7 Ah / 354.8 A	(15min, 1.60V/cell, 25°C / 77°F)
Max. Discharge Current	2000A (5s)	
Internal Resistance	Approx 2.7mΩ	
Operating Temp. Range	Discharge : -15 ~ 50°C (5 ~ 122°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 60.0A	
	Voltage: 14.4 ~ 15.0V at 25°C (77°F)	
	Temp. Coefficient: -30mV/°C	
Standby Use	No limit on Initial Charging Current	
	Voltage: 13.5 ~ 13.8V 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 Solar 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.	

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

Volts/cell	15min	30min	1h	5h	10h	20h	100h
1.80V	252.2	158.4	99.2	33.6	20.0	10.5	2.30
1.75V	279.8	170.4	107.0	34.9	20.4	10.7	2.32
1.70V	305.7	187.2	113.0	36.3	21.1	10.9	2.35
1.65V	323.7	197.2	116.9	37.6	21.5	11.2	2.39
1.60V	354.8	209.6	121.5	38.9	22.0	11.5	2.41

## Dimensions and Terminal (Unit: mm (inches))



## Applications

- Renewable Energy
- Alarm systems
- Electric Test Equipment
- Emergency lighting systems
- Marine equipment
- Telecommunications systems
- Pump systems
- Signal station
- Traffic lights
- Caravans
- Railway crossing

## Certifications

ISO 9001:2008 ISO 14001:2008



## Discharge Current vs. Discharge Voltage

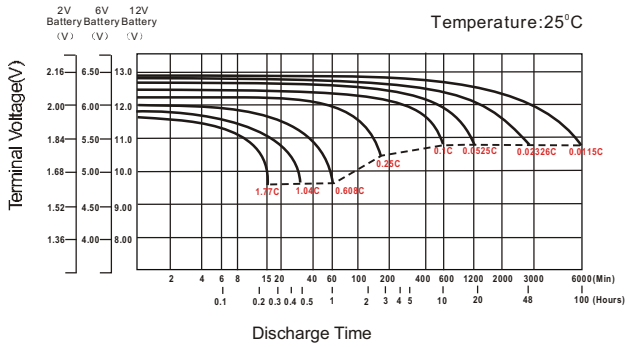
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	I ≤ 0.1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA

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

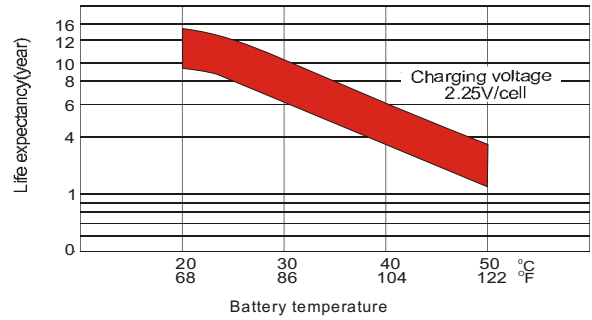
Volts/cell	15min	30min	1h	5h	10h	20h	100h
1.80V	466.8	298.9	191.3	65.9	39.7	20.9	4.59
1.75V	511.5	318.9	205.4	68.2	40.5	21.3	4.62
1.70V	551.1	348.4	216.2	70.9	41.8	21.7	4.68
1.65V	581.4	365.5	222.9	73.2	42.7	22.2	4.74
1.60V	624.3	384.2	229.6	75.4	43.5	22.7	4.78

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

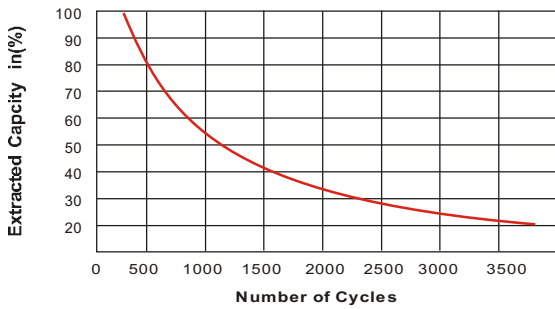
## Discharge Characteristic



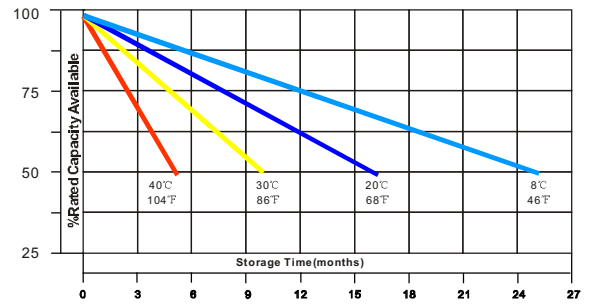
## Effect of Temperature on Long Terme Float Life



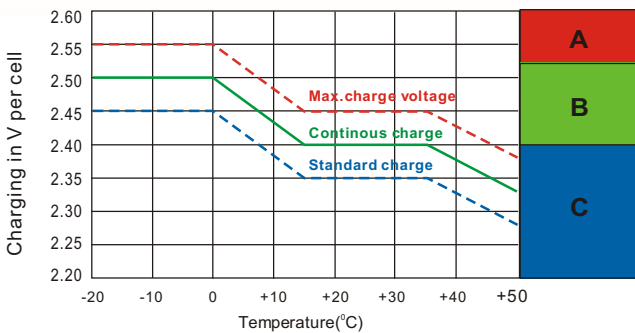
## Cycle Service Life



## Self-Discharge at Different Temperatures



## Charge Mode



- A** With switch regulator (two-step controller) charge on curve max.charge voltage for max.2 hrs/day then switch over to continuous charge
- B** Standard charge without switching
- C** Boost charge (Equalizing charge with external generator) charge on curve continuous charge for max. 5 hrs/month, then switch over to curve Standard charge

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

