

KBAS121200 12V 120Ah



The Kaise Solar Range is mainly used in renewable energy applications, due to its optimal cyclic use performance. It is specially designed for frequent cyclic charge and discharging, providing superior high integrity and reliability. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. Kaise Solar Range offer approx. 30% more cyclic life than the Standard Series.



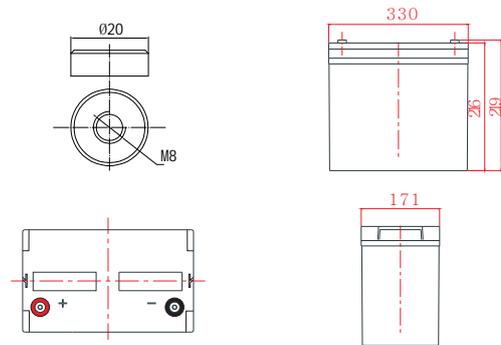
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	330 / 13.0
	Width (mm / inch)	171 / 6.73
	Height (mm / inch)	216 / 8.50
	Total Height (mm / inch)	219 / 8.662
Approx. Weight	[Kg / lbs] 29.5 / 65.0	
Design Life	12 years (floating charge)	
Terminal	M8	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.	
Rated Capacity	120.0 Ah / 1.20 A	(100hr, 1.80V/c, 25°C / 77°F)
	101.0 Ah / 10.1 A	(10hr, 1.75V/c, 25°C / 77°F)
	66.9 Ah / 66.9A	(1hr, 1.65V/c, 25°C / 77°F)
Max. Discharge Current	1200A (5s)	
Internal Resistance	Approx 5.0mΩ	
Operating Temp. Range	Discharge : -20 ~ 50°C (-4~ 122°F)	
	Charge : -20 ~ 50°C (-4~ 122°F)	
	Storage : -20 ~ 50°C (-4~ 122°F)	
Charge Current	Max. 25A	
Cycle Use	Voltage: 14.4V ~ 15.0V at 25°C (77°F)	
	Temp. Compensation: -30mV/°C	
Float Voltage Use	Voltage: 13.5V ~ 13.8V at 25°C (77°F)	
	Temp. Compensation: -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 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 25°C (77°F)

Volts/cell	1h	3h	4h	8h	10h	20h	100h
1.80V	63.8	26.9	19.5	12.0	10.0	5.35	1.20
1.75V	65.5	27.0	19.7	12.1	10.1	5.38	1.21
1.70V	66.4	27.3	19.9	12.2	10.2	5.40	1.22
1.65V	66.9	27.7	20.1	12.3	10.3	5.43	1.24
1.60V	67.3	28.0	20.3	12.4	10.4	5.46	1.25

Dimensions and Terminal (Unit: mm (inches))



Applications

- Renewable Energy
- Pump Systems
- Traffic lights
- Street lightening
- Marine equipment
- Caravans & Boats
- Weekend cottage camping
- Telecommunications systems

Certifications

ISO 9001 / ISO 14001



Discharge Current vs. Discharge Voltage

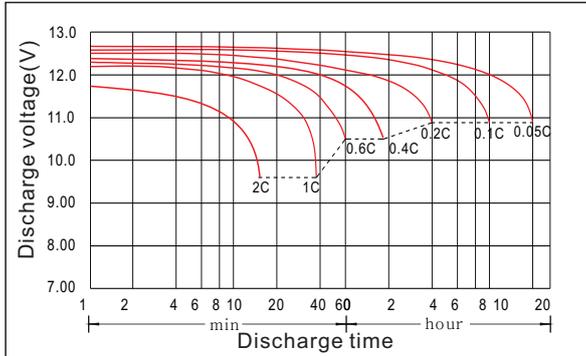
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	$I \leq 0.1CA$	$0.25CA \geq I > 0.1CA$	$0.55CA \geq I > 0.25CA$	$I > 0.55CA$

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

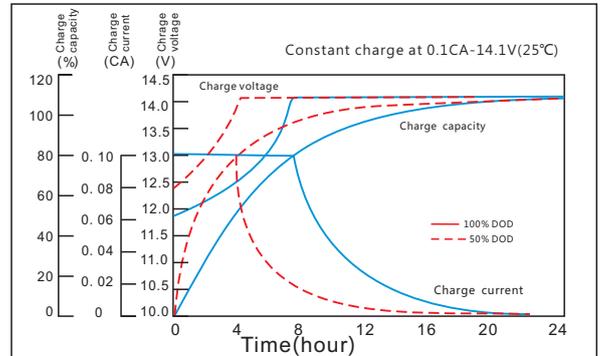
Volts/cell	1h	3h	4h	8h	10h	20h	100h
1.80V	123	51.8	38.4	23.3	19.2	10.6	3.93
1.75V	124	52.0	38.8	23.5	19.4	10.7	3.90
1.70V	125	52.3	39.2	23.7	19.6	10.7	3.95
1.65V	126	52.6	39.6	23.8	19.9	10.8	3.99
1.60V	127	53.3	40.0	24.0	20.0	10.8	4.02

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

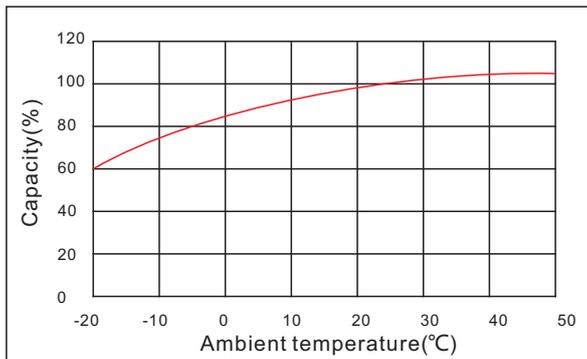
Discharge Characteristics Curve



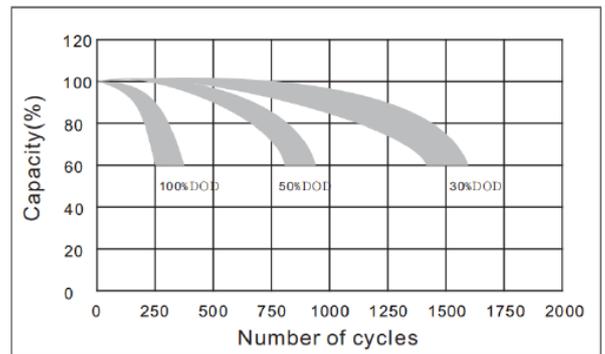
Charge Characteristic Curve



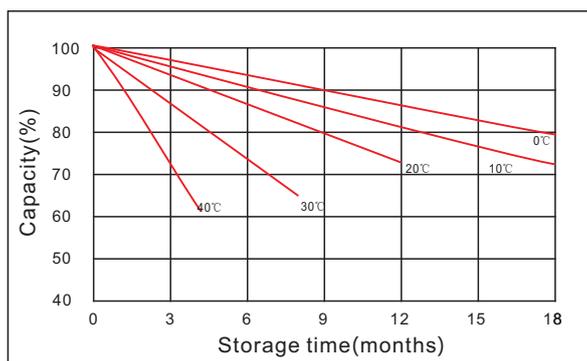
The Effect of Temperature on Capacity



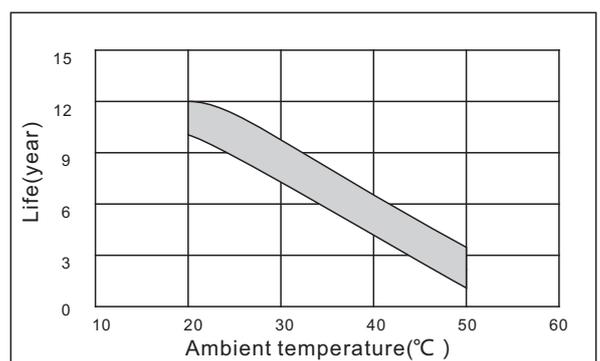
The Effect of Discharge Depth on Cycle Life



Curves of Self-Discharge



The Effect of Temperature on Float Life



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

