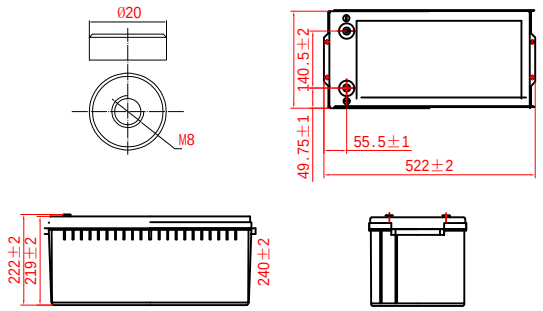
KBAS122500 12V 250A

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)	522 / 20.6
	Width (mm / inch)	240 / 9.45
	Height (mm / inch)	219 / 8.62
	Total Height (mm / inch)	222 / 8.74
Approx. Weight	(Kg / lbs)	59.0 / 130.3
Design Life	12 years (floating charge)	
Terminal	M8	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.	
Rated Capacity	250.0 Ah / 2.50 A	100hr, 1.60V/c, 25ºC /77ºF)
	202.0 Ah / 20.2 A	(10hr, 1.75V/c, 25ºC / 77ºF)
	134.0 Ah / 134 A	(1hr, 1.65V/c, 25ºC / 77ºF)
Max. Discharge Current	2400A (5s)	
Internal Resistance	Approx 3.0mΩ	
Operating Temp. Range	Discharge : -20 ~ 50ºC (-4~ 122°F)	
	Charge : -20 ~ 50ºC (-4~ 122°F)	
	Storage : -20 ~ 50ºC (-4~ 122°F)	
Charge Current	Max. 50A	
Cycle Use	Voltage: 14.4V ~ 15.0V at 25ºC (77ºF)	
	Temp. Compensation: -30mV/ºC	
Float Voltage Use	Voltage: 13.5V ~ 13.8V at 25ºC (77ºF)	
	Temp. Compensation: -18mV/ºC	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	Fully charged Kaise Solar Series batteries may be stored for up to 6 months at 25ºC (77ºF) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

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 ≤ 0,1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA

Constant Current Discharge (Amperes) at 25ºC (77ºF)

Volts/cell	1h	3h	4h	8h	10h	20h	100h
1.80V	128	53.7	39.0	23.9	20.2	10.7	2.40
1.75V	131	54.1	39.4	24.1	20.2	10.8	2.42
1.70V	133	54.7	39.8	24.3	20.4	10.8	2.45
1.65V	134	55.4	40.2	24.5	20.6	10.9	2.47
1.60V	135	56.1	40.6	24.7	20.8	10.9	2.50

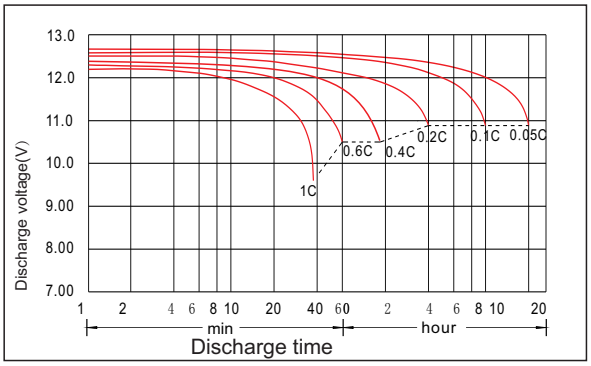
Constant Power Discharge (Watts per cell) at 25ºC (77ºF)

Volts/cell	1h	3h	4h	8h	10h	20h	100h
1.80V	251	106	76.9	47.4	39.6	21.2	4.71
1.75V	258	107	77.7	47.7	40.1	21.3	4.83
1.70V	261	108	78.3	48.2	40.4	21.4	4.91
1.65V	263	109	79.3	48.5	40.9	21.5	4.98
1.60V	264	110	79.9	48.9	41.2	21.6	5.02

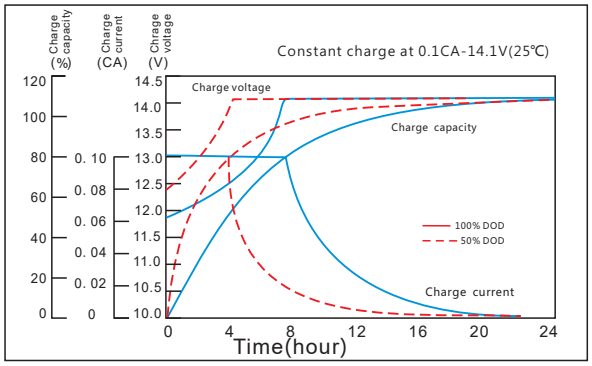
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KBAS122500 12V 250Ah

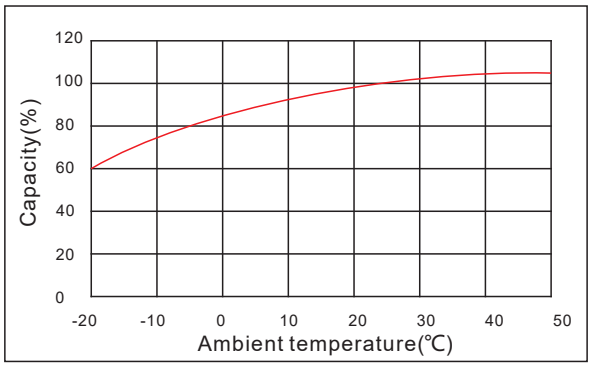
Discharge Characteristics Curve



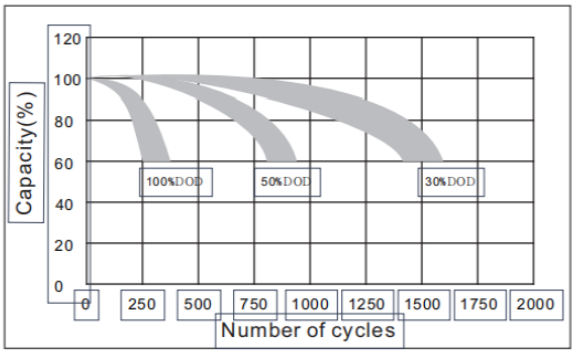
Charge Characteristic Curve



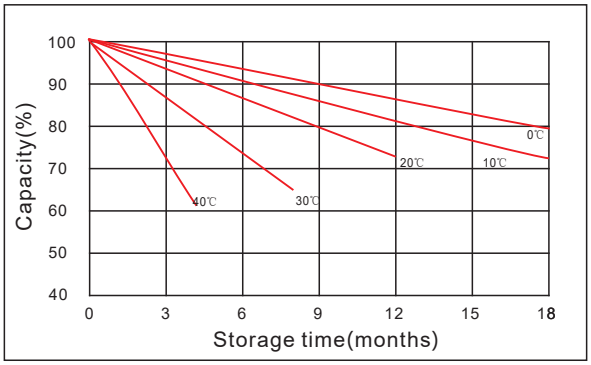
The Effect of Temperature on Capacity



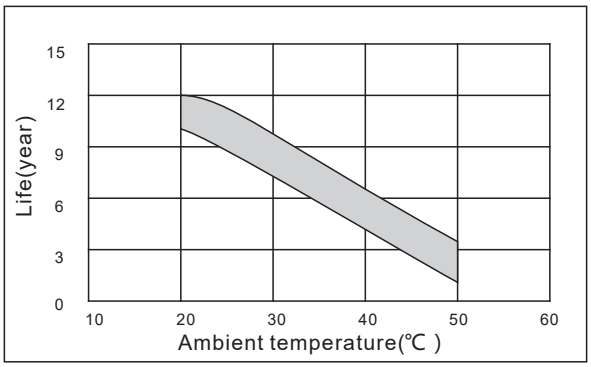
The Effect of Discharge Depth on Cycle Life



Curves of Self-Discharge



The Effect of Temperature on Float Life



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

2025/V1/K

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