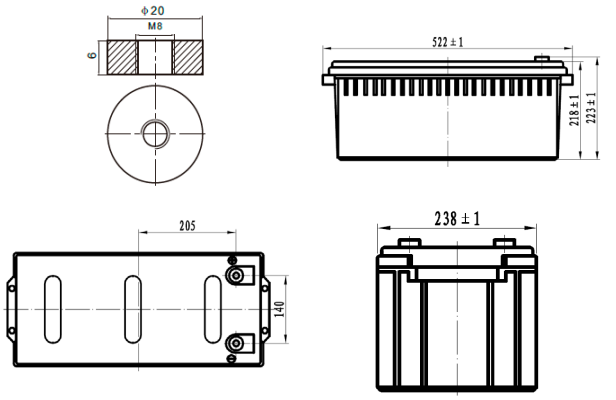
KBASL122500 12V 250Ah

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 / 20.55
	Width (mm / inch)	238 / 9.37
	Height (mm / inch)	218 / 8.58
	Total Height (mm / inch)	223 / 8.78
Approx. Weight	(Kg / lbs)	62.5 / 137.8
Design Life	8 - 12 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	250.0Ah / 2.50 A	(100hr, 1.80V/cell, 25ºC / 77ºF)
	200.0Ah / 20.0 A	(20hr, 1.80V/cell, 25ºC / 77ºF)
	176.0 Ah / 35.2A	(5hr, 1.80V/cell, 25ºC / 77ºF)
	126.0 Ah / 126.0 A	(1hr, 1.60V/cell, 25ºC / 77ºF)
	87.5 Ah / 350.0 A	(15min, 1.60V/cell, 25ºC / 77ºF)
Max. Discharge Current	1000A (5s)	
Internal Resistance	Approx 4.0mΩ	
Operating Temp. Range	Discharge : -20 ~ 60ºC (-4 ~ 140ºF)	
	Charge : -10 ~ 60ºC (14 ~ 140ºF)	
	Storage : -20 ~ 60ºC (-4 ~ 14ºF)	
Nominal Operating Temp. Range	25 ± 3ºC (77 ± 5ºF)	
Cycle Use	Initial Charging Current less than 60.0A	
	Voltage: 2.40 ~ 2.45VPC at 25ºC (77ºF)	
	Temp. Coefficient: -30mV/ºC	
Standby Use	Initial Charging Current less than 60.0A	
	Voltage: 2.20 ~ 2.30VPC at 25ºC (77ºF)	
	Temp. Coefficient: -20mV/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
Alarm systems
Electric Test Equipment
Emergency lighting systems
Marine equipment
Telecommunications 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 ≤ 0,1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA

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

Volts/cell	15min	30min	45min	1h	3h	5h	10h
1.80V	261	182	137	112	50.5	35.2	20.0
1.75V	310	195	142	115	52.9	35.8	20.2
1.70V	327	201	146	118	54.5	36.4	20.5
1.65V	340	207	150	122	55.0	37.0	20.6
1.60V	350	215	156	126	57.0	38.0	20.7

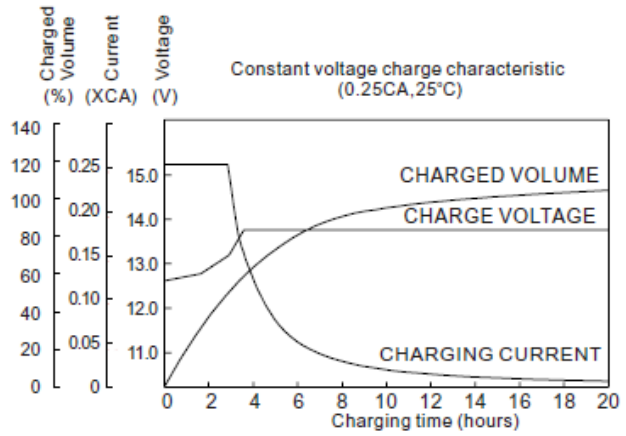
Constant Power Discharge (Watts per cell) at 77ºF (25ºC)

Volts/cell	15min	30min	45min	1h	3h	5h
1.80V	538	355	265	212	97.0	69.0
1.75V	561	363	269	214	100	69.9
1.70V	569	373	274	218	104	70.8
1.65V	586	380	280	222	106	71.6
1.60V	607	392	288	227	108	72.6

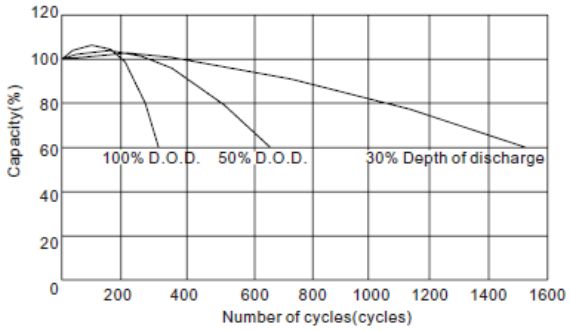
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KBASL122500 12V 250Ah

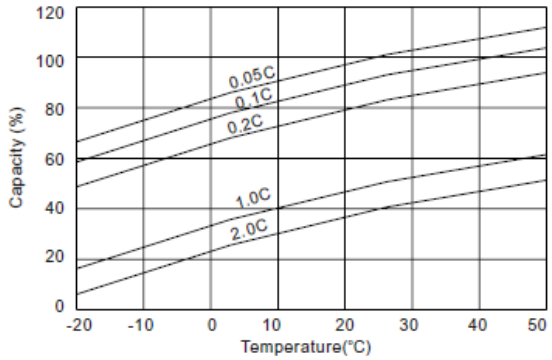
Charging Characteristic (float use)



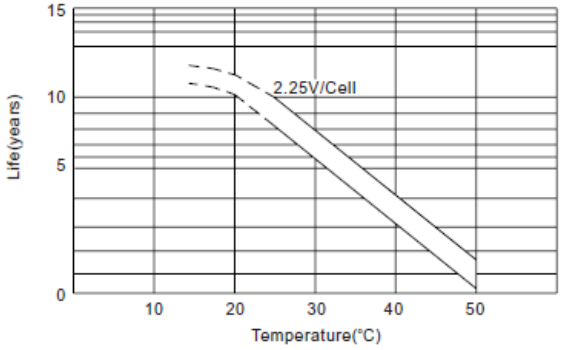
Cycle Life in Relation to Depth of Discharge



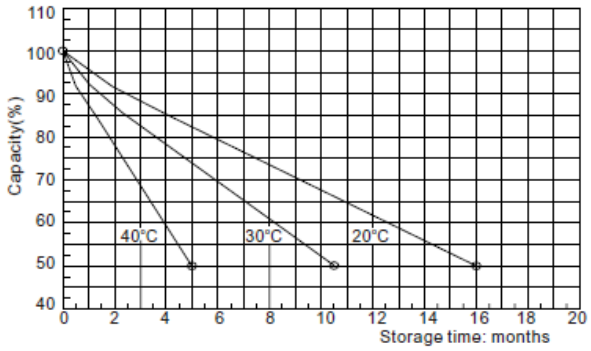
Teperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Terme Float Life



Self Discharge Characteristcs



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

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