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)	328±2 / 12.9
	Width (mm / inch)	172±2 / 6.77
	Height (mm / inch)	215±2 / 8.46
	Total Height (mm / inch)	220±2 / 8.66
Approx. Weight	(Kg / lbs)	29.0 / 63.9
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, 1.75V/c, 25ºC / 77ºF)
	103.0 Ah / 10.3 A	(10hr, 1.75V/c, 25ºC / 77ºF)
	61.2 Ah / 61.2 A	(1hr, 1.65V/c, 25ºC / 77ºF)
Max. Discharge Current	1000A (5s)	
Internal Resistance	Approx 5.0mΩ	
Operating Temp. Range	Discharge : -20 ~ 60ºC Charge : 0 ~ 50ºC Storage : -20 ~ 60ºC	
Nominal Operating Temp. Range	25ºC ± 5ºC	
Cycle Use	Voltage: 14.6V ~ 14.8V at 25ºC (77ºF) Temp. Compensation: -4mV/ºC / Cell	
Float Voltage Use	Voltage: 13.6V ~ 13.8V at 25ºC (77ºF) Temp. Compensation: -3mV/ºC / Cell	
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 9001:2008 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 25ºC (77ºF)

Volts/cell	1h	3h	4h	8h	10h	24h	100h
1.80V	54.6	25.0	20.0	11.7	10.0	4.40	1.17
1.75V	57.5	26.1	20.8	12.1	10.3	4.52	1.20
1.70V	59.7	26.9	21.3	12.3	10.5	4.61	1.22
1.65V	61.2	27.4	21.7	12.5	10.6	4.67	1.24
1.60V	62.4	27.8	22.0	12.7	10.7	4.72	1.25

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

Volts/cell	1h	3h	4h	8h	10h	24h	100h
1.80V	105	48.6	39.0	23.1	19.8	8.69	2.30
1.75V	110	50.5	40.3	23.7	20.3	8.92	2.36
1.70V	113	51.7	41.2	24.2	20.7	9.08	2.41
1.65V	116	52.7	41.9	24.5	20.9	9.20	2.44
1.60V	117	53.2	42.3	24.7	21.1	9.27	2.46

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

KBAS121200 12V 120Ah

Kaise®

Discharge Characteristics Curve

Charge Characteristic Curve for Cycle Use (IU)

Cycle Life in Relation to Depth of Discharge

Relation between Charging Voltage and Temperature

Temperature Effects on Capacity

Storage Characteristics

Effect of Temperature on Long Term Life

Relation between OCV and State of Charge (20ºC)

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

2021/VR

Contacto
energy@tempelgroup.com
www.tempelgroup.com

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