

KBHR121000 12V 100Ah



The Kaise HR batteries were specially designed for applications that demand a very high energy output. With an optimized design of the grids and an excellent formula for pasting the plates, the HR series can deliver up to 40% more than the standard series.



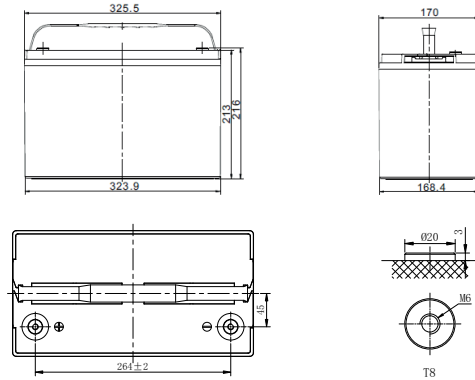
Performance Characteristics

Nominal Voltage	12V	
Dimensions	Length (mm / inch)	325.5 / 12.8
	Width (mm / inch)	170 / 6.69
	Height (mm / inch)	213 / 8.39
	Total Height (mm / inch)	216 / 8.50
Approx Weight	(Kg / lbs) 31.6 / 69.7	
Design Life	10 years	
Terminal	M6	
Container Material	ABS (UL94 HB or V-0 optional)	
Rated Capacity	101.6Ah / 5.08A	(20hr, 1.80V / cell, 25°C / 77°F)
	67.8Ah / 67.8A	1hr, 1.70V / cell, 25°C / 77°F)
	63.4Ah / 126.7A	(30min, 1.70V / cell, 25°C / 77°F)
	53.0Ah / 211.8A	(15min, 1.70V / cell, 25°C / 77°F)
Internal Resistance	Approx 3.6mΩ	
Operating Temp. Range	Discharge : -15 ~ 50°C (5 ~ 122°F)	
	Charge : -20 ~ 40°C (-4 ~ 104°F)	
	Storage : -15 ~ 40°C (5 ~ 104°F)	
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
Cycle Use	Max. Charging Current 0.25C	
	Voltage: 13.8V-14.4V at 25°C (77°F)	
	Temp. Coefficient: -4mV/cell/°C	
Standby Use	Max. Charging Current 0.25C	
	Voltage: 13.5V-13.8V at 25°C (77°F)	
	Temp. Coefficient: -3mV/cell/°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 High Rate 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.	

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

Volts/cell	10min	15min	20min	30min	1h	10h
1.80V	220.9	186.4	152.0	114.8	61.5	9.60
1.75V	243.0	200.9	161.7	121.8	65.1	9.81
1.70V	258.7	211.8	169.6	126.7	67.8	10.0
1.67V	274.3	222.6	171.8	129.4	69.5	10.1
1.60V	285.9	229.4	181.8	133.8	72.4	10.3

Dimensions and Terminal (Unit: mm (inches))



Applications

- UPS
- High power backup supply
- Electric facilities
- Power tools

Certifications

ISO 9001 / ISO 14001



Discharge Current vs. Discharge Voltage

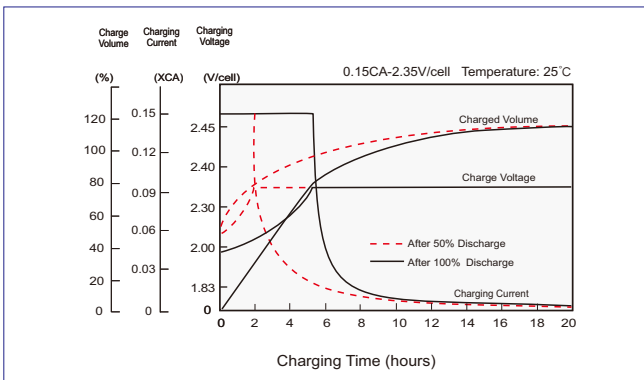
Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	$I \leq 0.1CA$	$0.25CA \geq I > 0.1CA$	$0.55CA \geq I > 0.25CA$	$I > 0.55CA$

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

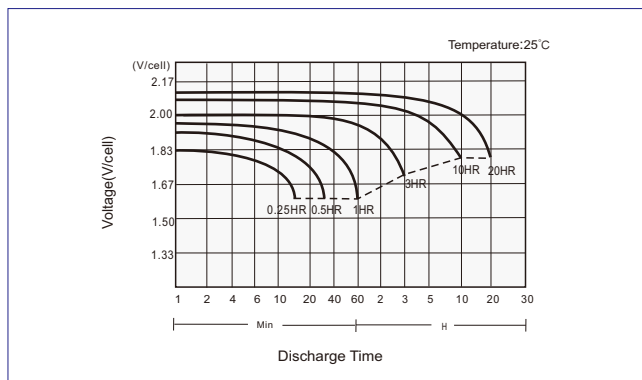
Volts/cell	10min	15min	20min	30min	1h	10h
1.80V	427.7	363.0	297.7	226.2	122.4	19.7
1.75V	466.1	387.8	313.9	237.8	128.6	20.0
1.70V	490.7	404.0	325.8	244.9	133.0	20.2
1.67V	516.5	422.0	328.0	248.8	135.4	20.4
1.60V	532.5	430.4	343.7	254.8	139.9	20.4

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

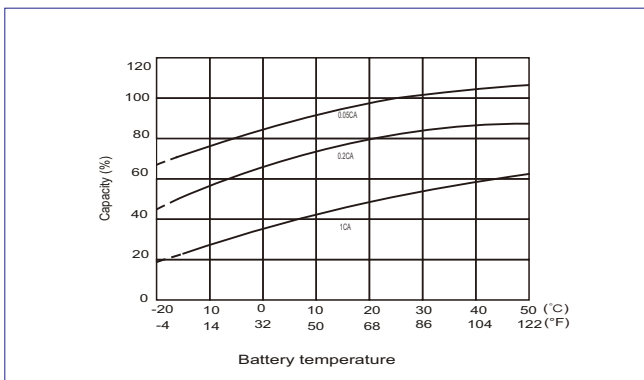
Charging Characteristics



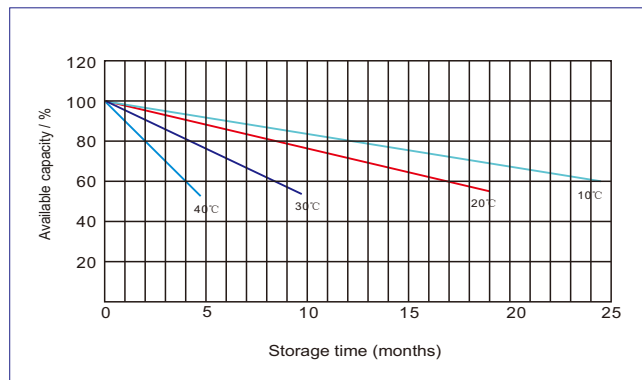
Discharge Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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

