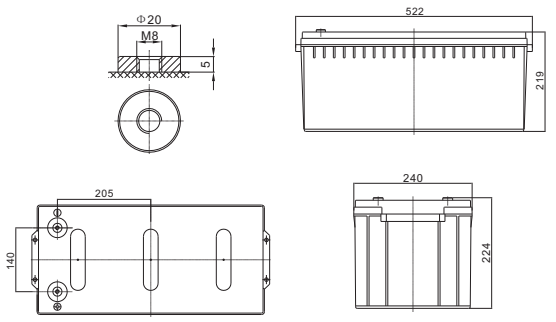
KBHR122200 12V 225Ah

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)	522 / 20.6
	Width (mm / inch)	240 / 9.45
	Height (mm / inch)	219 / 8.62
	Total Height (mm / inch)	224 / 8.82
Approx Weight	(Kg / lbs)	72.0 / 158.7
Capacity	800W@15min-rate to 1.67V per cell @25℃	
Design Life	15 years	
Terminal	M8	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional	
Reference Capacity	C10 230.0Ah	
	C20 240.0Ah	
Max. Discharge Current	2400A (5s)	
Internal Resistance	≤2.4 mΩ	
Operating Temp. Range	Discharge : -20 ~ 60°C	
	Charge : 0 ~ 50°C	
	Storage : -20 ~ 60°C	
Nominal Operating Temp. Range	25 ± 5°C (77 ± 41°F)	
Cycle Use	Initial Charging Current less than 72.0A	
	Voltage: 14.10V ~ 14.40V at 25°C (77°F)	
	Temp. Coefficient: -4mV/°C	
Standby Use	Initial Charging Current less than 72.0A	
	Voltage: 13.50V ~ 13.62V at 25°C (77°F)	
	Temp. Coefficient: -3mV/°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.	

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 ≤ 0.1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA

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

Volts/cell	10min	15min	20min	30min	1h	1.5h
1.80V	429.4	358.0	297.9	224.9	133.7	97.20
1.75V	460.1	378.4	312.6	234.8	138.7	100.5
1.70V	490.8	400.0	329.1	245.2	143.7	103.7
1.67V	509.1	412.5	338.6	251.2	146.6	105.8
1.60V	550.8	442.4	360.2	265.5	153.6	110.3

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

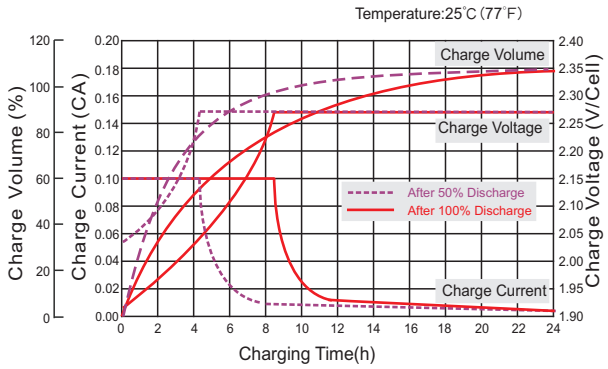
Volts/cell	10min	15min	20min	30min	1h	1.5h
1.80V	870.4	714.3	597.2	452.3	257.7	188.3
1.75V	921.7	747.6	620.5	468.7	265.7	193.6
1.70V	970.4	781.4	646.5	484.7	273.2	198.9
1.67V	998.3	800.0	660.7	494.7	277.7	201.7
1.60V	1058	843.2	692.3	515.9	288.6	208.7

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

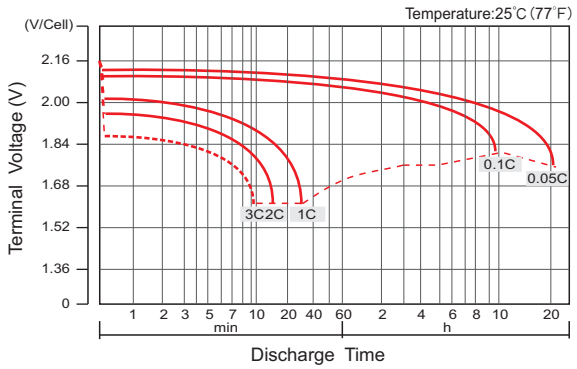
KBHR122200 12V 225Ah

Kaise®

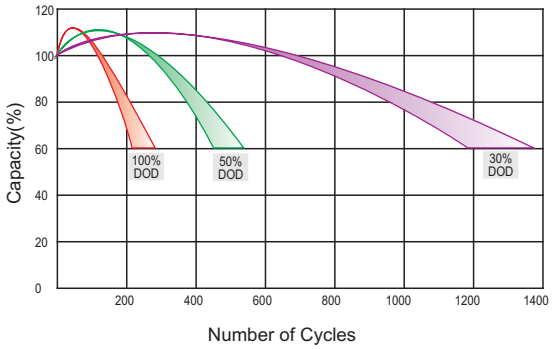
Charge Characteristic Curve For Standby Use



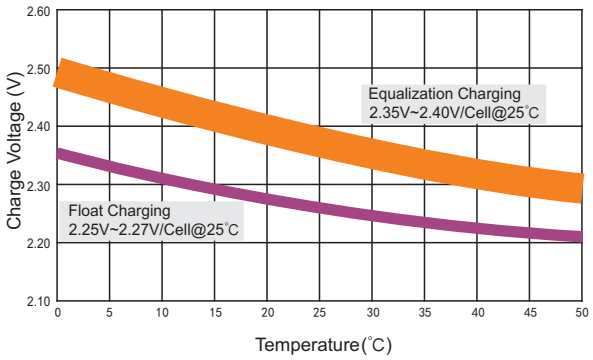
Discharge Characteristics Curve



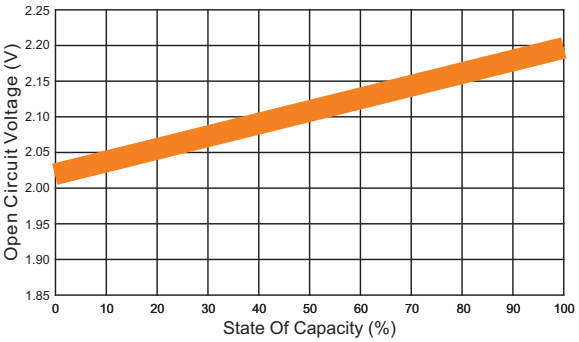
Cycle Life In Relation To Depth Of Discharge



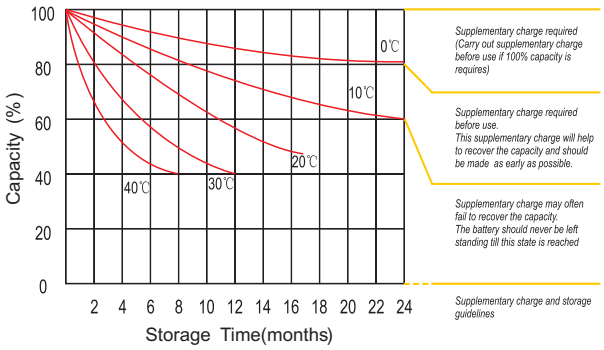
Relationship Between Charging Voltage And Temperature



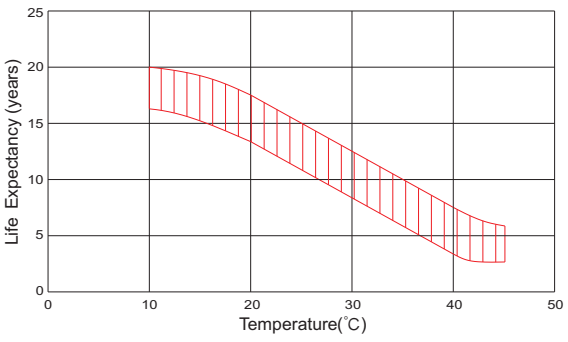
Relationship of OCV And State of Charge(20℃)



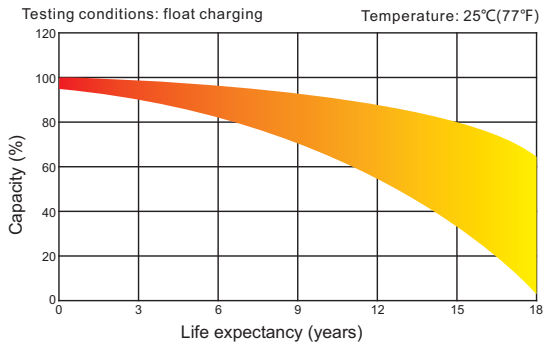
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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

21025/V/R

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