KBHR12550 12V 55Ah

Kaise

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.



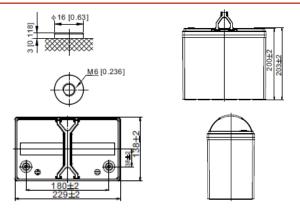
Performance Characteristics

Nominal Voltage	12V			
Dimensions	Length (mm / inch)		29 / 9.02	
	Width (mm / inch)	1	38 / 5.43	
	Height (mm / inch)		00 / 7.87	
	Total Height (mm / inch	1) 2	03 / 7.99	
Approx Weight	(Kg / lbs)	15	7.3 / 38.1	
Design Life	10 years			
Terminal	M6			
Container Material	ABS			
Rated Capacity	232.3Watts / Cell	(15min, 1.60V / cell, 25º	C / 77ºF)	
	55Ah	(20hr, 1.80V / cell, 25º	C / 77°F)	
Max. Discharge Current	825A (5s)			
Internal Resistance	Approx 5mΩ			
Operating Temp. Range	Discharge : -15 ~ 55°C (5 ~ 131°F)			
	Charge : 0 ~ 40°C (32 ~ 104°F)			
	Storage : -15 ~ 40°C (5 ~ 104°F)			
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)			
Cycle Use	Initial Charging Current	less than 11.0A.		
	Voltage: 14.4V~14.7V at 25° C (77° F)			
	Temp. Coefficient: -30m\	//°C		
Standby Use	Initial Charging Current	less than 11.0A		
	13.5V~13.8V at 25° C (77°F)			
	Temp. Coefficient: -20m\	//ºC		
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 sho			

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

Volts/cell	10min	15min	20min	30min	1h
1.80V	114.2	95.7	80.2	60.0	34.2
1.75V	126.4	103.4	85.8	62.8	35.4
1.70V	137.7	110.9	91.2	66.0	36.6
1.60V	155.6	123.8	100.0	70.8	38.9

Dimensions and Terminal (Unit: mm (inches))



Applications

UPS
High power backup supply
Electric facilities
Power tools

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

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

Volts/cell	10min	15min	20min	30min	1h	
1.80V	221.1	186.4	157.0	118.1	68.0	
1.75V	242.4	199.6	166.5	122.7	70.0	
1.70V	261.2	211.5	175.2	127.6	71.8	
1.60V	289.8	232.3	189.0	134.8	75.2	

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

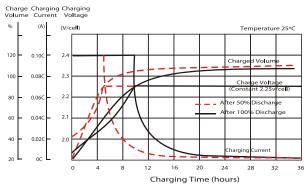
KBHR 12550 12V 55Ah



30

50

Charging Characteristics (cycle use)



Charging Current 0 -20 -10 0 10 20

Capacity (%)

120

100

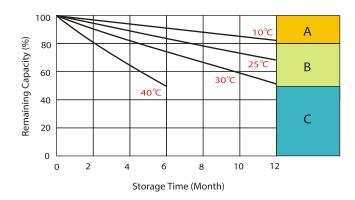
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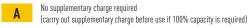
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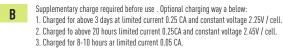
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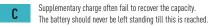
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Self Discharge Characteristics





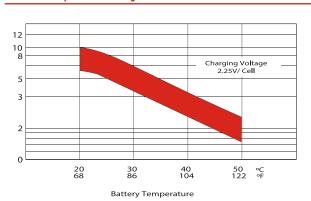




Effect of Temperaure on Long Term Float Life

Temperature Effects in Relation to Battery Capacity

0.12



Temperature (°C)