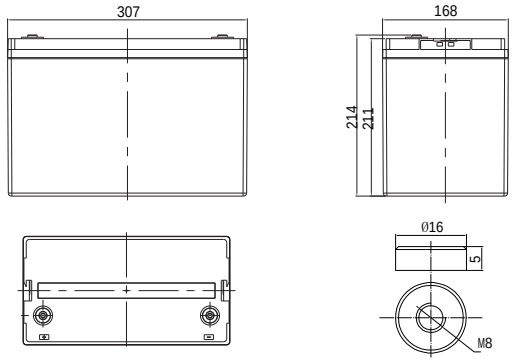
KBHR12900 12V 95Ah

The Kaise HR batteries with AGM (Absorvent Glass Material) technology 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)	307 / 12.1
	Width (mm / inch)	168 / 6.61
	Height (mm / inch)	211 / 8.31
	Total Height (mm / inch)	214 / 8.43
Approx Weight	(Kg / lbs)	31.0 / 68.3
Design Life	10 years	
Terminal	M8	
Container Material	ABS (UL94-HB, UL94-V0 Optional)	
Rated Capacity	95.0 Ah / 9.50A	(10hr, 1.80V / cell, 25ºC / 77ºF)
	63.7 Ah / 63.7A	(1hr, 1.70V / cell, 25ºC / 77ºF)
	58.5Ah / 117.0A	(30min, 1.70V / cell, 25ºC / 77ºF)
	53.0Ah /212.0A	(15min, 1.70V / cell, 25ºC / 77ºF)
Max. Discharge Current	950A (5s)	
Internal Resistance	Approx 4.5mΩ	
Operating Temp. Range	Discharge: -20 ~ 50ºC (-4 ~ 122ºF)	
	Charge: -20 ~ 50ºC (-4 ~ 122ºF)	
	Storage: -20 ~ 50ºC (-4 ~122ºF)	
Cycle Use	Initial Charging Current less than 23.75A.	
	Voltage: 14.4V ~ 15.0V at 25ºC (77ºF) Temp.	
	Coefficient: -30mV/ºC	
Standbye Use	Initial Charging Current less than 23.75A.	
	Voltage: 13.7V ~ 13.9V at 25ºC (77ºF)	
	Temp. Coefficient: -18mV/ºC	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	<= 3% of capacity declined per month at 20ºC	

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 77ºF (25ºC)

Volts/cell	10min	15min	30min	45min	1h
1.80V	217	191	108	73.5	59.3
1.75V	240	205	113	74.2	61.5
1.70V	265	212	117	75.0	63.7
1.67V	281	217	120	75.8	65.0
1.60V	319	224	127	76.6	68.2

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

Volts/cell	10min	15min	30min	45min	1h
1.80V	390	362	217	142	114
1.75V	420	382	225	143	118
1.70V	450	387	232	144	121
1.67V	470	390	237	145	123
1.60V	510	402	247	147	128

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

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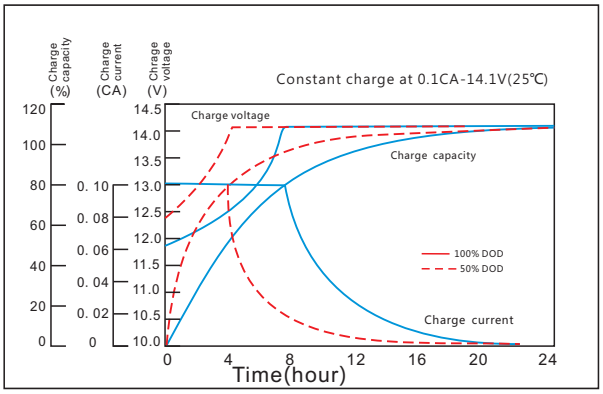
Charging Characteristics



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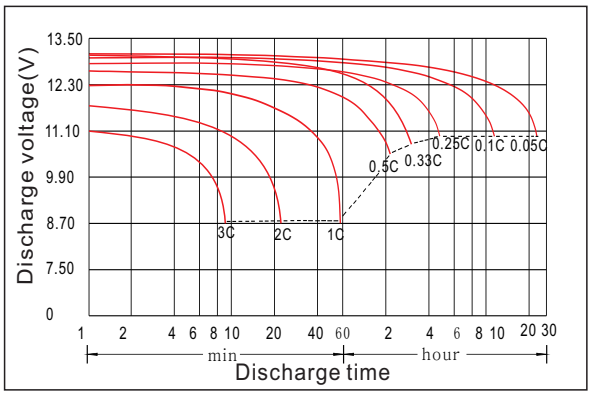

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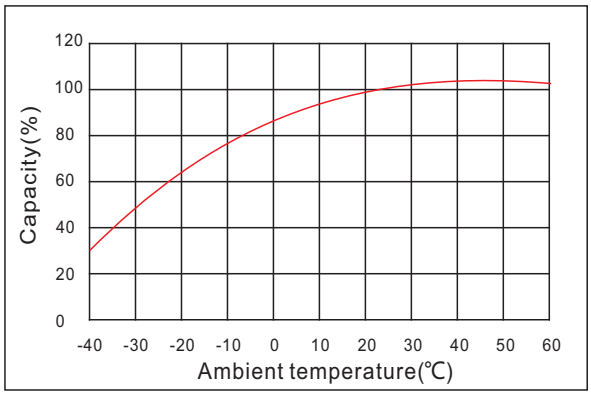

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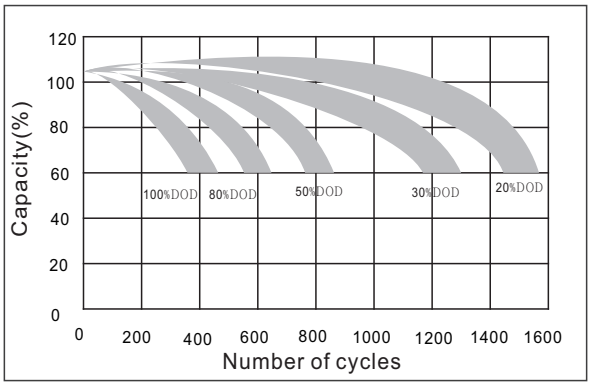

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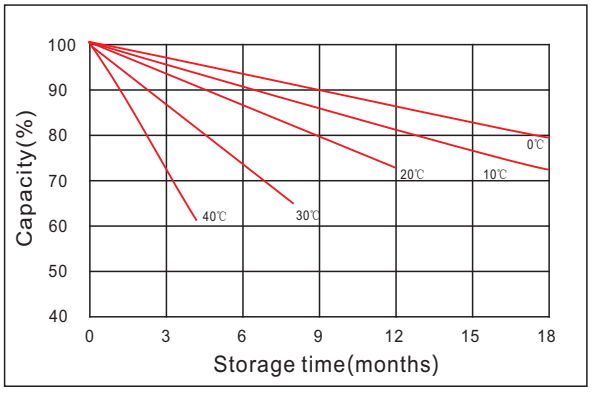

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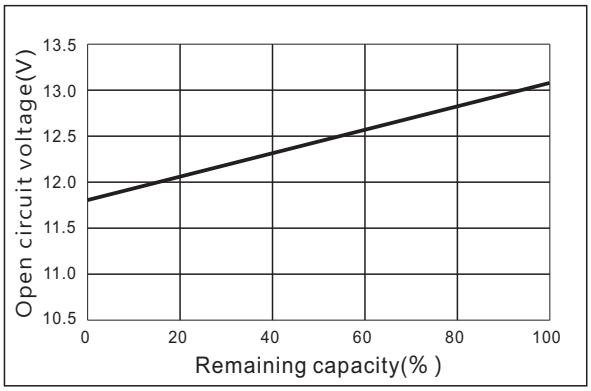

IMPORTANT NOTE: The specifications presented herein are subject to revision without notice.

1/1/2024

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