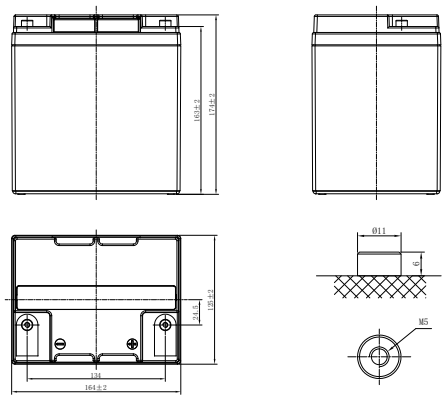
KBHR12280 12V 28Ah

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)	164 / 6.46
	Width (mm / inch)	125 / 4.92
	Height (mm / inch)	174 / 6.85
	Total Height (mm / inch)	174 / 6.85
Approx Weight	(Kg / lbs)	8.40 / 18.5
Design Life	12 years	
Terminal	M5	
Container Material	ABS (UL94 HB or V-0 optional)	
Rated Capacity	C10 1.80V/cell 26.2Ah	
	C20 1.80V/cell 27.6Ah	
Short-Circuit Current	690A (5s)	
Internal Resistance	Approx 14.0mΩ	
Operating Temp. Range	Discharge: -15 ~ 50ºC (5~122ºF)	
	Charge : -20 ~ 40ºC (-4 ~ 104ºF)	
	Storage : -15 ~ 40ºC (5 ~ 104ºF)	
Nominal Operating Temp. Range	25 ± 3ºC (77 ± 5ºF)	
Cycle Use	Initial Charging Current less than 6.9A.	
	Voltage: 13.8V ~ 14.4V at 25ºC (77ºF)	
	Temp. Coefficient: -4mV/cell/℃	
Standby Use	Voltage: 13.5V ~ 13.8V at 25ºC (77ºF)	
	Temp. Coefficient -3mV/cell/℃	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	Fully charged Kaise High Rate 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

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	20min	30min	1h
1.80V	62.8	48.7	39.3	28.7	17.1
1.75V	65.3	50.4	40.4	29.4	17.4
1.70V	68.0	52.0	41.6	30.2	17.7
1.67V	69.9	53.3	42.4	30.7	18.0
1.60V	72.8	55.2	43.7	31.5	18.4

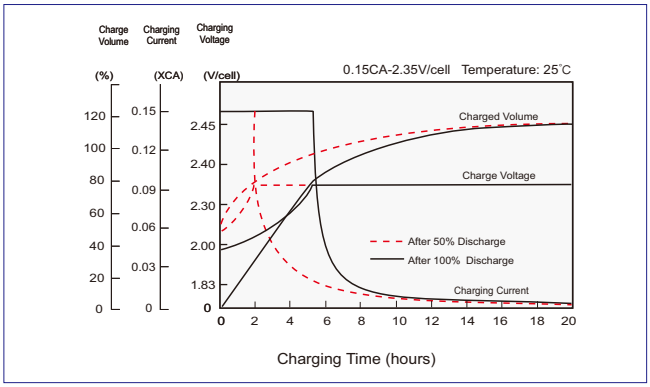
Discharge Constant Power (Watts per cell) at 77ºF (25ºC)

Volts/cell	10min	15min	20min	30min	1h
1.80V	118.7	92.8	75.3	55.2	33.1
1.75V	122.6	95.3	77.0	56.4	33.6
1.70V	126.7	97.9	78.8	57.5	34.1
1.67V	129.5	100.0	80.2	58.4	34.6
1.60V	133.3	102.7	82.2	59.7	35.2

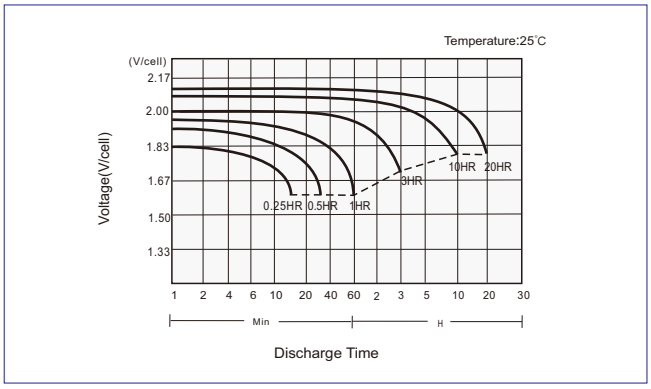
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KBHR12280 12V 28Ah

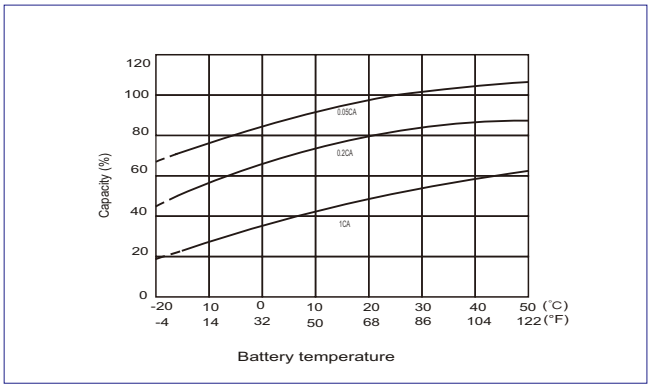
Charging Characteristics



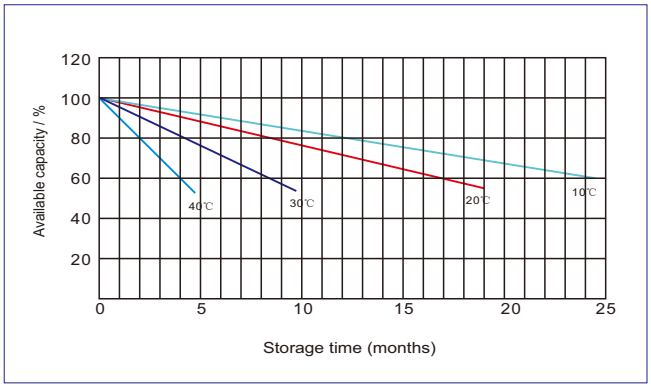
Discharge Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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

2025/V1/L

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