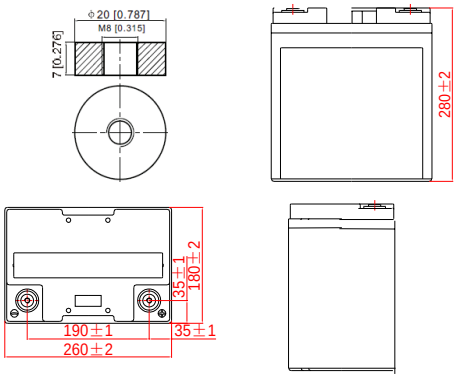
KB8170EV 8V 170Ah C_3

The Electric Vehicle batteries were developed based on a specialized grid as well as active material. These batteries have anchored plates and a high impact reinforced polypropylene case which can withstand the most extreme environments and vibrations. The KB EV series is constituted of batteries of several different sizes so that they may be used for many different applications. The KB EV series uses dry cell technology that allows for a superior performance and an unparalleled quality and reliability. Through the use of the dry cell technology this series was designed for sensitive environments that require improved life cycles for commercial, industrial, residential and private applications. Without any need for maintenance and with an advanced construction the EV series is an excellent option for many applications.

Dimensions and Terminal (Unit: mm (inches))



Performance Characteristics

Nominal Voltage	8V	
Dimensions	Length (mm / inch)	260 / 10.2
	Width (mm / inch)	180 / 7.1
	Height (mm / inch)	280 / 11.0
	Total Height (mm / inch)	280 / 11.0
Approx. Weight	(Kg / lbs)	36.5 / 80.5
Design Life	5 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	190.0 Ah / 19.0 A	(10hr, 1.75V / cell, 20ºC / 77ºF)
	170.1 Ah / 56.7 A	(3hr, 1.75V / cell, 20ºC / 77ºF)
	150 Ah / 150 A	(1hr, 1.65V / cell, 20ºC / 77ºF)
Operating Temp. Range	Discharge : -20 ~ 50ºC (-4 ~ 122ºF) Charge : -20 ~ 50ºC (-4 ~ 122ºF) Storage : -20 ~ 50ºC (-4 ~ 122ºF)	
Max Charge Current	25.5A	
Cycle Use	Voltage: 9.60V ~ 10.0V at 25ºC	
Standby Use	Voltage: 9.00V ~ 9.20V at 25ºC	
Capacity affected by Temperature	40ºC (104ºF)	103%
	25ºC (77ºF)	100%
	0ºC (32ºF)	86%
Self Discharge	Fully charged Kaise Electric Vehicle 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.	

Applications

Electric wheelchair
Electric vehicle / golf car
Electric toys
Renewable energies
Marine equipment

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

Constant Current Discharge (Amperes) at 25ºC (77ºF)

Volts/cell	30min	1h	2h	3h	5h	8h	10h	20h
1.80V	233	143	76.6	56.5	35.1	22.6	18.8	10.6
1.75V	244	147	78.0	56.7	36.0	22.6	19.0	10.6
1.70V	246	149	79.2	57.4	36.4	22.8	19.2	10.6
1.65V	251	150	79.8	58.3	36.9	23.0	19.4	10.7
1.60V	256	151	80.3	58.8	37.1	23.2	19.6	10.8

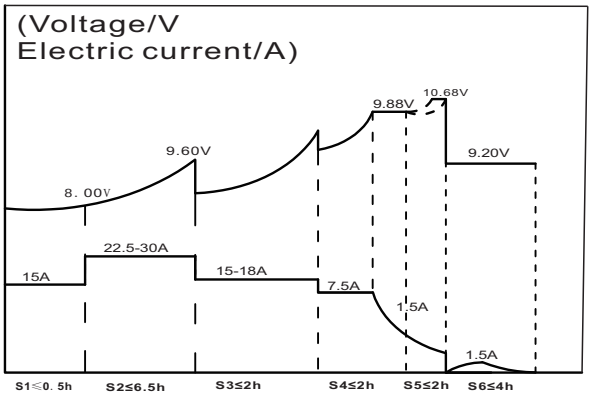
Constant Power Discharge (Watts per cell) at 25ºC (77ºF)

Volts/cell	30min	1h	2h	3h	5h	8h	10h	20h
1.80V	443	277	149	109	68.3	43.9	36.2	20.9
1.75V	455	280	150	109	69.1	44.3	36.6	21.0
1.70V	457	282	151	110	69.6	44.5	36.8	21.1
1.65V	457	285	151	111	70.0	44.7	37.2	21.2
1.60V	462	287	152	112	70.5	45.1	37.6	21.3

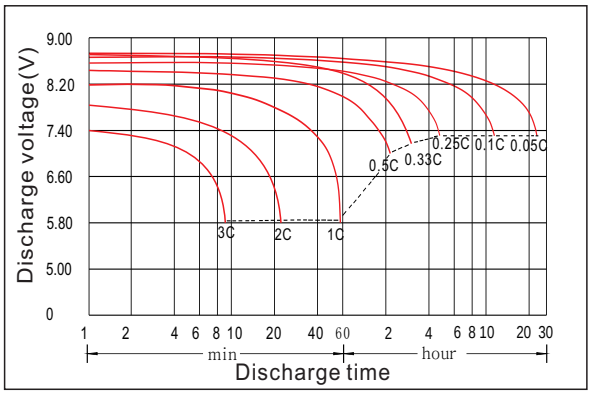
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

KB8170EV 8V 170Ah C_3

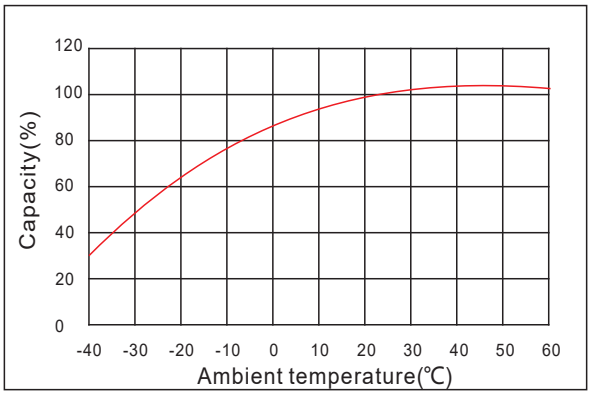
Charging Characteristic (cycle use)



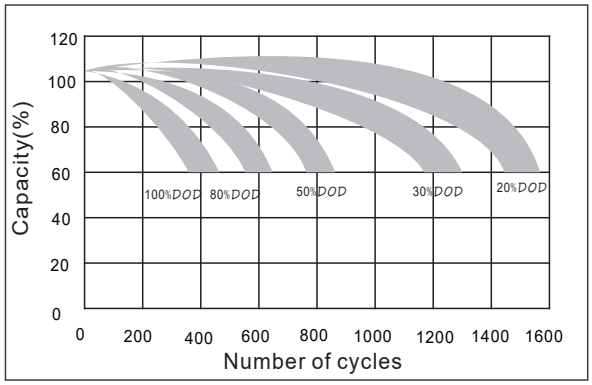
Discharge Characteristics



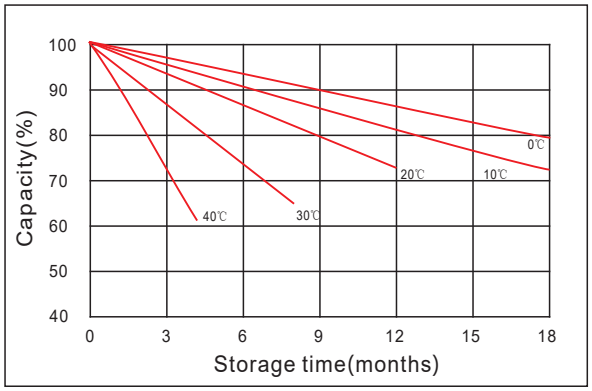
The effect of temperature on capacity



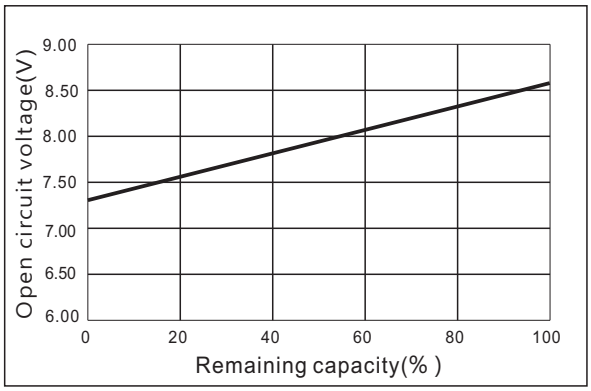
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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

2025/V/K

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