KB12110EV 12V 106Ah C₃

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.



Performance Characteristics

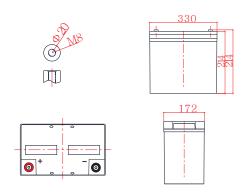
12V				
Length (mm / inch)	330 / 12.9			
Width (mm / inch)	172 / 6.77			
Height (mm / inch)	214 / 8.43			
Total Height (mm / inch)	214 / 8.43			
(Kg / lbs)	33.2 / 73.3			
5 years				
M8				
ABS				
118 Ah / 11.8 A	(10hr, 1.75V / cell, 20°C / 77°F)			
106 Ah /35.3 A	(3hr, 1.75V / cell, 20°C / 77°			
82.9 Ah / 82.9 A	(1hr, 1.75V / cell, 20°C / 77°F)			
Discharge : -20 ~ 50°C (-4 ~ 122°F)				
Charge : -20 ~ 50°C (-4 ~ 122°F)				
Cycle use: 14.7~14.9V at 25°C (77°F), recom 14.7V				
,				
Fully charged Kaise Elect stored for up to 6 months	c Vehicle batteries may be at 25°C (77°F) and then a red. For higher temperatures the			
	Length (mm / inch) Width (mm / inch) Height (mm / inch) Total Height (mm / inch) (Kg / lbs) 5 years M8 ABS 118 Ah / 11.8 A 106 Ah /35.3 A 82.9 Ah / 82.9 A Discharge: -20 ~ 50°C (-4 Storage: -20 ~ 50°C (-4 Float use: 13.7 ~ 13.9V at Cycle use: 14.7 ~ 14.9V at 2 Max charge current 21.0A Fully charged Kaise Elect stored for up to 6 months			

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

Volts/cell	5min	15min	30min	1h	2h	3h	10h	20h
1.80V	342	205	134	80.8	46.7	35.0	11.7	6.36
1.75V	382	220	140	82.9	47.5	35.3	11.8	6.40
1.70V	415	227	141	84.1	48.3	35.6	11.9	6.42
1.65V	433	232	143	84.8	48.6	36.2	12.0	6.46
1.60V	446	240	146	85.3	48.9	36.5	12.1	6.49



Dimensions and Terminal (Unit: mm (inches))



Applications

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

Certifications

ISO 9001:2008 ISO 14001:2008



Discharge Current vs. Discharge Voltage

Final discharge voltage V/CELL			1,7	1,6		
Discharge current	l ≤ 0,1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA		

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

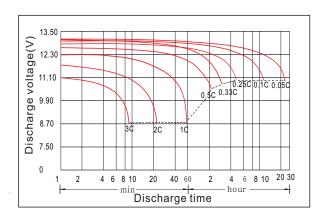
Volts/cell	5min	15min	30min	1h	2h	3h	10h	20h
1.80V	613	385	254	156	91.1	67.0	23.2	12.8
1.75V	668	407	260	157	91.3	67.3	23.4	12.8
1.70V	716	410	261	159	91.8	67.7	23.6	12.9
1.65V	720	415	261	160	92.2	68.0	23.9	13.0
1.60V	748	422	264	161	92.5	68.9	24.1	13.0

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

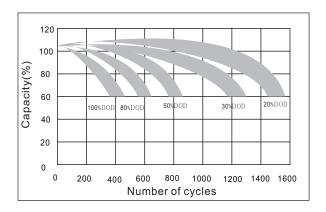
KB12110EV 12V 106Ah C3



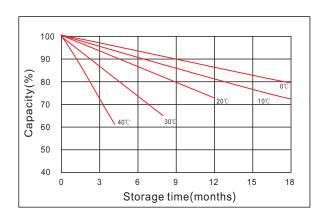
Disharging Characteristic



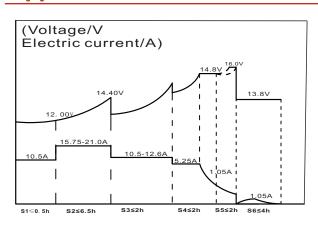
The effect of discharge depth on cycle life



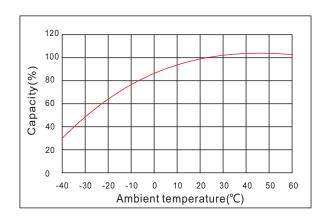
Curves of self-discharge



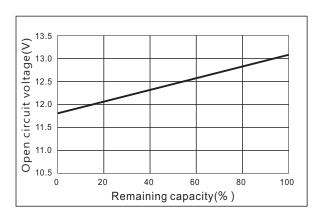
Charging Characteristics



Temperature Effects on Capacity



Curves of open circuit voltage vs. capacity



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



