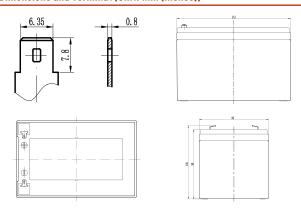
# **KB1212EV** 12V 12Ah



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	12V					
Dimensions	Length (mm / inch)	152 / 5.94				
	Width (mm / inch)	99 / 3.90				
	Height (mm / inch)	98 / 3.86				
	Total Height (mm / inch)	106 / 4.06				
Approx. Weight	(Kg / lbs)	4.4 / 9.92				
Design Life	8 years					
Terminal	F2					
Container Material	ABS					
Internal Resistance	Approx 8.5m <b>Ω</b>					
Operating Temp. Range	Discharge : -20 ~ 60°C (-4 ~ 140°F)					
	Charge : -10 ~ 60°C (14 ~ 140°F)					
	Storage : -20 ~ 60°C (-4 ~ 140°F)					
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)					
Self Discharge	Fully charged Kaise Electric Vehicle 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 shorter.					

### 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		

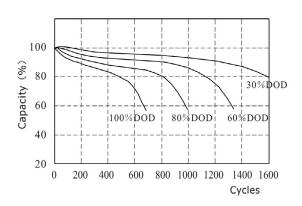
### Constant Current (Amp) and Constant Power (Watt) Discharge Table

Temperature 25C[77F]											
Discharge Time(min) Final Volt-age / Cell Constant Current Constant Power / Cell	<u>20</u> 1.60	<u>30</u> 1.60	<u>45</u> 1.60	<u>60</u> 1.67	<u>90</u> 1.70	<u>120</u> 1.75	<u>180</u> 1.75	<u>240</u> 1.75	300 1.75	<u>360</u> 1.75	<u>600</u> 1.80
Current (Amp)	21.2	16.7	12.7	10.3	7.56	6.00	4.24	3.30	2.70	2.29	1.44
Power (Watt)	38.0	30.3	23.5	19.6	14.4	11.5	8.21	6.40	5.27	4.48	2.85

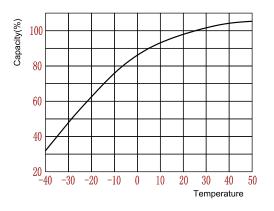
# **KB1212EV** 12V 12Ah



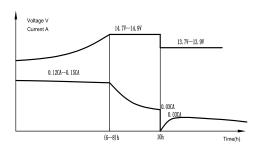
### **Disharging Characteristic**



### **Temperature Effects on Capacity**

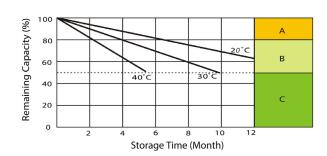


### **Charging Characteristics**



The first stage:at constant current 0,12CA-0,15CA charge,the voltage is up to 14,8V and turns to second stage. The second stage at constant voltage 14,8½4,1V charge,the current decreasing decreases to 0,03CA gradually and turns to third stage. The third stage-fixtick charge, at constant voltage 138.2-01 discharge.

### Cycle Service Life in Relation to Depth of Discharge



- A With switch regulator (two-step controller) charge on curve max. charge voltage for max. 2 hrs/day then switch over to continous charge.
- B Standard charge without switching.
- Boost charge (Equalizing charge with external generator) charge on curve continous charge for max. 5 hrs/month, thenswitch over to curve Standard charge.