

## **Gel Batteries for Electric Road Vehicles**

# 6-EVF-100

#### **Applications**

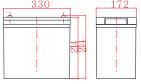
- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- ) Garbage truck
- > Patrol car

#### **General Features**

- High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- High Energy Density and Power Density
- > Excellent Charge Acceptance Ability
- > Strong High and Low Temperature Performance
- Optimized Capability of instant High-current Discharging
- Low self-discharge rate



Dimension: 330(L)×172(W) ×214(H)×214(TH) Unit: mm







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6-EVF-100 (116Ah)

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**Gel Batteries** 

#### **Specification**

Nominal Voltage	12V					
Nominal Capacity	116Ah @C20					
Design life	5 years					
Terminal	M8					
Approx. Weight	Approx32.0kg (70.6lbs)					
Container Material	ABS					
	116Ah 20Hour Rate (6.18A to 10.5V)					
Rated Capacity	100.0Ah 3Hour Rate (33.3A to 10.5V)					
	79.1Ah 1Hour Rate (79.1A to 10.5V)					
	Discharge 00 50°0/ 4 400°5					

	Discharge:	-20 ~50°C(-4~ 122°F)
Operating Temperature	Charge:	-20 ~50°C(-4~ 122°F)
	Storage:	-20 ~50°C(-4~ 122°F)

Float Use:13.7-13.9V@25°C

Charge Method
(25°C)

Cycle Use:14.3-14.5V,@25°C

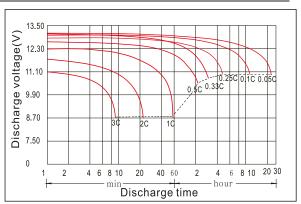
Self discharge 3% of capacity declined per month at 25°C

Max charge current 20.0A

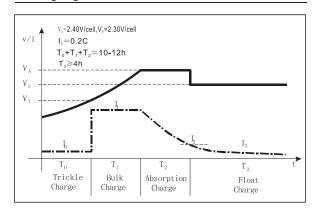
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h		
1.60V	426	228	139	81.3	46.6	34.6	22.8	14.6	12.0	6.28		
1.65V	413	222	137	80.8	46.4	34.2	22.5	14.4	11.8	6.24		
1.70V	396	217	134	80.3	46.0	33.7	22.3	14.3	11.8	6.21		
1.75V	364	210	133	79.1	45.3	33.3	22.0	14.2	11.6	6.18		
1.80V	327	196	128	77.0	44.5	33.1	21.4	14.1	11.5	6.15		
1.85V	291	174	116	71.3	42.3	31.2	20.3	13.5	11.2	6.05		
Constant Power Discharge Characteristics Unit: W/cell(25 °C , 77 °F )												
F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h		
1.60V	713	403	252	153	88.3	65.8	43.1	28.3	23.0	12.4		
1.65V	686	396	249	153	88.3	64.9	42.8	28.1	22.8	12.3		
1.70V	683	391	249	152	87.5	64.5	42.5	27.9	22.5	12.3		
1.75V	637	388	248	150	87.5	64.2	42.3	27.8	22.3	12.3		
1.80V	584	368	243	149	86.7	63.9	41.8	27.5	22.1	12.2		
1.85V	522	328	222	138	83.3	60.8	39.9	26.6	21.8	12.1		

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

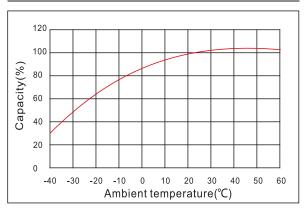
#### Discharge characteristic



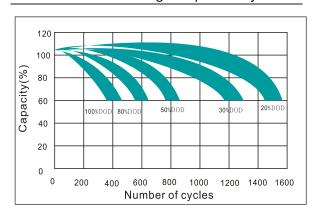
#### Charging characteristic



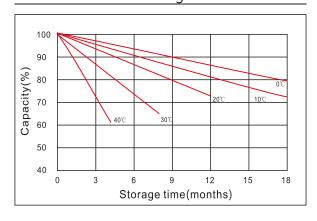
#### The effect of temperature on capacity



### The effect of discharge depth on cycle life



#### Curves of self-discharge



### Curves of open circuit voltage vs. capacity

