EVF Series
Motive Battery

3-EVF-120

12Volt

120ah @3hr
150ah @20hr

VRLA AGM-GEL / Non Spilable / Maintenance Free

AEG MOTIVE ENERGY

EVF series are designed to provide superior performance to power your low speed electric vehicle. AGM (absorbed glass mat) gel (fumed silica) technology combined with lasted innovative design, results in a battery that of offers increaed power, longer life and excellent reliability. Valve regulated sealed type provide a 100% maintenance free motive battery.

Confidence is knowing the battery, will outlast keep your forklift, golf cart, sweeper, wheelchair moving



APPLICATION

A whole range of EV applications including but not limited to:


Golf Cart


Wheelchair


Electric Tricycle


E-Forklift


Scissor Lift


Sweeper

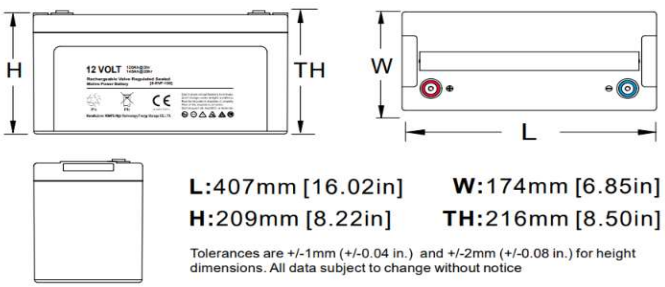
FEATURE

- Anti-vibration effect: adopting enhanced vibration-resistance design, battery can be used in low speed electric vehicle without a shock proof system.
- Good recovery performance: adopting the unique formula of active materials, the battery is resistance to deep discharging and has good recovery performance
- Excellent big current discharge performance: adopting low resistance material, the inner resistance is smaller
- Low/High temperature resistance: suitable for indoor and outdoor use in varies environment.
- Patented nanometer level fumed silica gel electrolyte
- Strict quality control manufacturing processes, ISO9001 approve
- IEC, CE, RoHS, ISO9001,IS014001

SPECIFICATION

Nominal Voltage				12V (6 cells)
Nominal Capacity				
20-Hr	10-Hr	5-Hr	3-Hr	1-Hr
150Ah	140Ah	132Ah	120Ah	105Ah
Approximate Net Weight				42kgr (92.6lbs)
Internal Resistance (appox.)				< 3.8mΩ
Terminal				M8 - Φ18
Torque value for pole bolts				15-17 Nm
Charge Voltage	Equalize	14.7 V (25°C) -4mV/2V °C		
	Float	13.8 V (25°C) -3mV /2V°C		
Operating Temp. Range				-25°C to 55°C
Advice Operating Temp.				15°C to 25°C
Self Discharge				
1 month				97%
3 months				91%
6 months				83%
Case and Cover				A.B.S , optional UL94-VO
CHARGER VOLTAGE SETTINGS (At 25°C / 77°F)				
SYSTEM VOLTAGE	12V	24V	36V	48V
mac Charging currect (A)		0.2 C20		
Equlize charging V	14.7	29.4	44.1	58.8
Standby charging V	13.8	27.6	41.4	55.2

DIMENSIONS (mm)



L:407mm [16.02in] **W**:174mm [6.85in]
H:209mm [8.22in] **TH**:216mm [8.50in]

Tolerances are +/-1mm (+/-0.04 in.) and +/-2mm (+/-0.08 in.) for height dimensions. All data subject to change without notice

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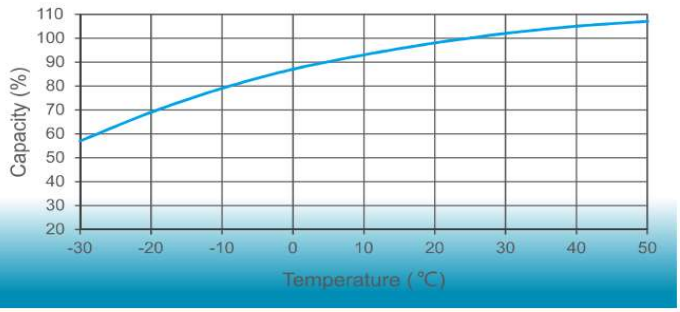
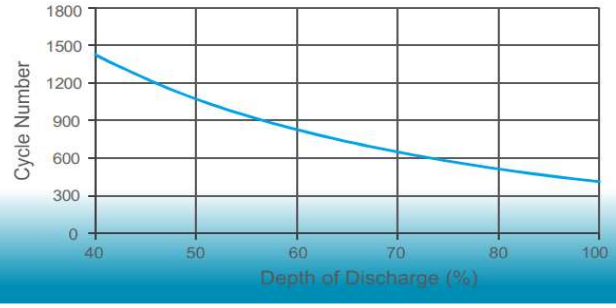
Discharge Curve (25 ℃)



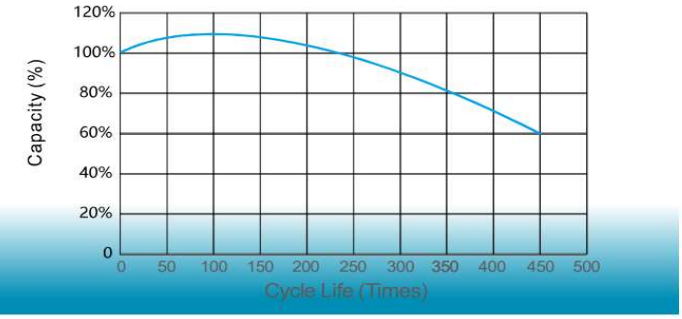
Temperature Vs Battery Capacity



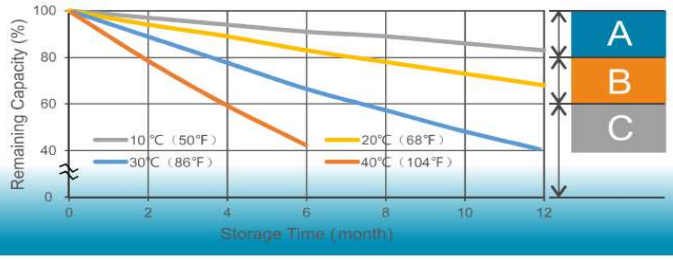
Cycle Life Vs Depth of Discharge



Cycle Life Vs Remaining Capacity



Self Discharge Characteristics

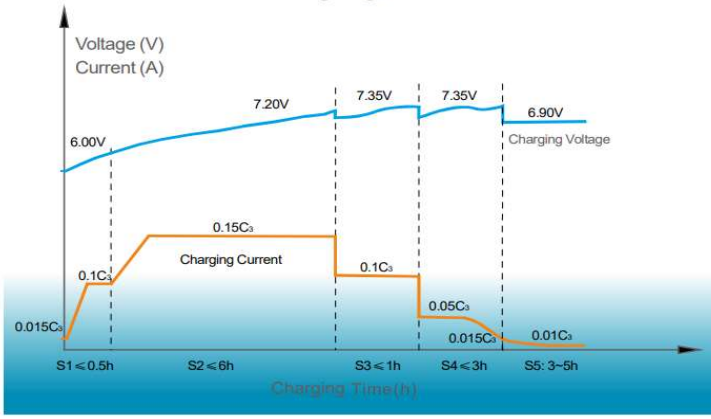


A Charging is not necessary unless 100% of capacity is required.

B Charging before use is necessary to help recover full capacity.

C Charging may fail to restore full capacity. Do not let batteries reach this state.

Charging Curve



Description of charging process and related parameters

(1) The first stage: pre-charging, Charging with constant current 0.1C_3 to 6V or last 0.5h, it will automatically jump to the second stage. This stage is mainly to prevent that the battery voltage is too low because of useless for a long time. This stage can be omitted, If the battery is fresh

(2) The second stage: Charging with constant current 0.15C_3 to 7.2V or last 6h, it will automatically jump to the third stage

(3) The third stage: Charging with constant voltage 7.35V limited current 0.1C_3 for 1h, automatically jump to the fourth stage

(4) The forth stage: Constant voltage 7.35V limited current 0.05C_3 charging, when the current gradually drops to 0.015C_3 or last 3h, automatically jump to the fifth stage

(5) Fifth stage: Float charging, voltage 6.9V, limited current 0.01C_3, for 3-5h (if the current at this stage keep the value no change at 0.01C_3 for more than 1h, the charger should alarm)

Temperature Compensation: -3 mV/cell/°C.

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