EVF Series
Motive Battery

6-EVF-38

12Volt

38ah @3hr
50ah @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

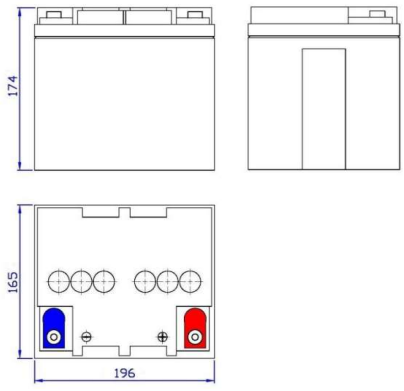
SPECIFICATION

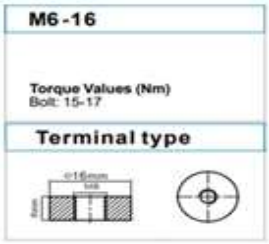
Nominal Voltage				12V (6 cells)
Nominal Capacity				
20-HR	10-HR	5-HR	3-HR	1-HR
50Ah	45Ah	42Ah	38Ah	32Ah
Approximate Net Weight				14,0 kgr (30.86 lbs)
Internal Resistance (approx.)				<7.9milliohms
CHARGER VOLTAGE SETTINGS (@ 77°F/25°C)				
System Voltage	12	24	36	48
Max.Charging Current (A)		0.2 x C20		
Equilize Charging Voltage	14.7	29.4	44.1	58.8
Standby Charging Voltage	13.8	27.6	41.4	55.2
Terminal				M6-Φ16
Operating Temp. Range				-25°C to 55°C (-13°F to 131°F)
Recom. Operating temp.				15°C to 25°C (59°F to 77°F)
Self Discharge				
1 month				97%
3 months				91%
6 months				83%

AEG EVF series's self discharge is <3%/month at 20°C (68°F)
The Storage period may up to 6 months at 20°C (68°F) and then a freshening charge is required

Case and cover	A.B.S.
	UL94-VD (optional)

DIMENSIONS (mm)





L: 196mm [7.71 in]
W: 165mm [6.49 in]
H: 174mm [6.85 in]
TH: 174mm [6.85 in]

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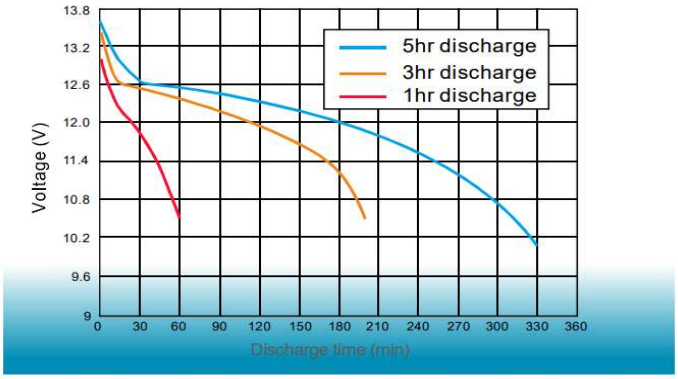
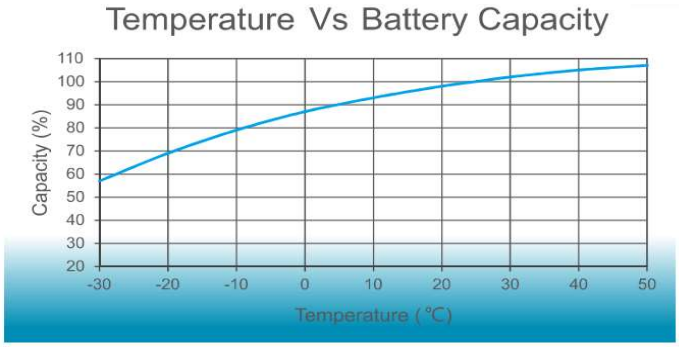
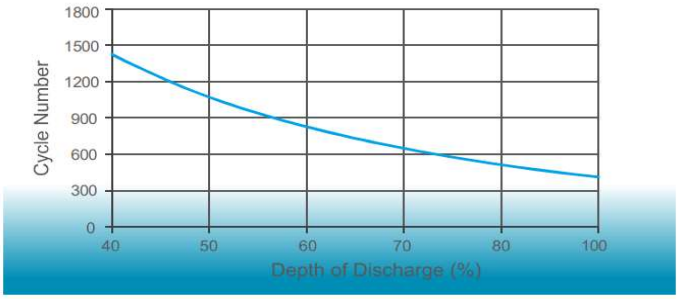
Discharge Curve (25 °C)



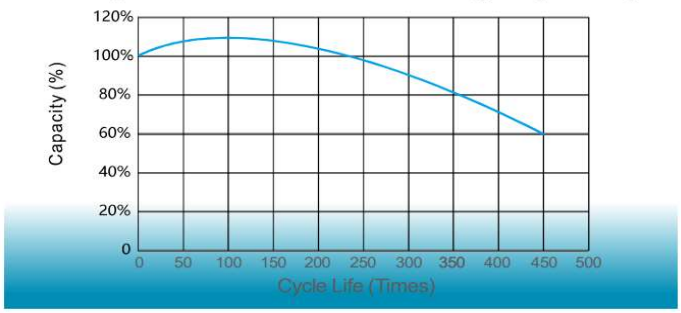
Temperature Vs Battery Capacity



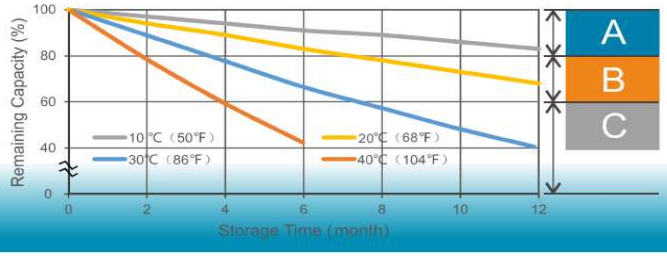
Cycle Life Vs Depth of Discharge



Cycle Life Vs Remaining Capacity



Self Discharge Characteristics

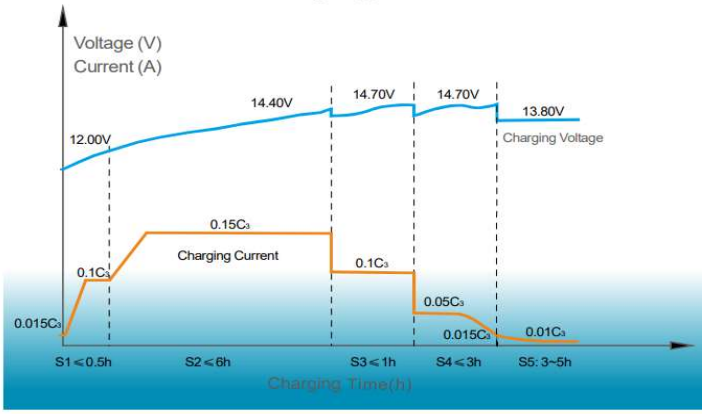


A Charging is not necessary unless 100% of capacity is required.

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 12V 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 are fresh

(2) The second stage: Charging with constant current 0.15C_3 to 14.4V or last 6h, it will automatically jump to the third stage

(3) The third stage: Charging with constant voltage 14.7V limited current 0.1C_3 for 1h, automatically jump to the fourth stage

(4) The forth stage: Constant voltage 14.7V 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 13.8V, 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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