EVF Series **6-EVF-50**

12Volt 50ah @3hr
65ah @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:



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
65Ah	59Ah	54Ah	50Ah	44Ah
Approximate Net Weight				17.2 kg (37.9 lbs)
Internal Resistance (approx.)				<7.5 milliohms

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)

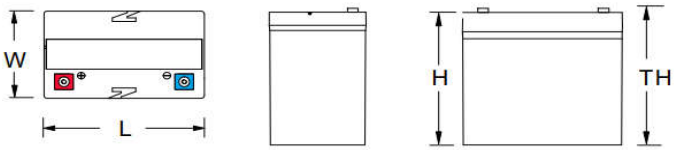
System Voltage	12	24	36	48
Max. Charging Current (A)	0.2 C20			
Equalize Charging voltage	14.7	29.4	44.1	58.8
Standby Charging voltage	13.8	27.6	41.4	55.2

Terminal	M8-Φ16
Operating Temp. Range	-25°C to 55°C(-13°F~131°F)
Advice Operating Temp.	15°C~25°C(59°F~77°F)
Self Discharge	
1 month	97%
3 month	91%
6 month	83%

AEG EVF series's self discharge <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-V0 Optional.

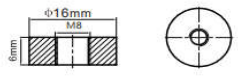
DIMENSIONS (mm)



L:229mm [9.02in] **W:**138mm [5.43in] **H:**210mm [8.27in]

H:216mm [8.50in]

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

Terminal type	M8-16
	**Battery Height with Terminal in millimeter (in)** 216mm [8.50in] **Torque Values (Nm)** Bolt: 15-17

www.aegbatteries.com Email : info@aegbatteries.com

© 2022 AEG BATTERIES. All rights reserved. AEG BATTERIES Company is not liable for damages that may result from any information provided in or omitted from this from this publication, under any circumstances. AEG BATTERIES Company reserves the right to make adjustments to this publication at any time, without notice or obligation.

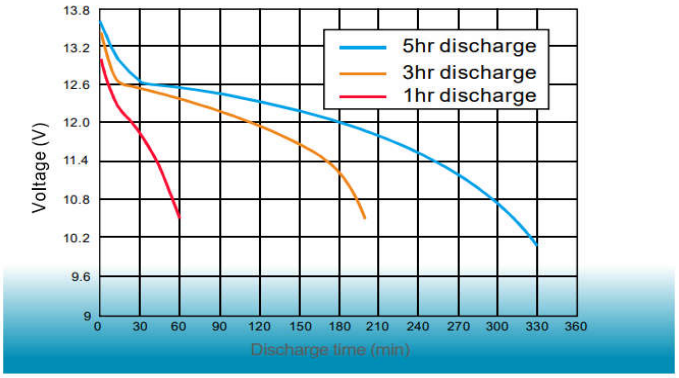
EVF Series **6-EVF-50**

12Volt 50ah @3hr
65ah @20hr

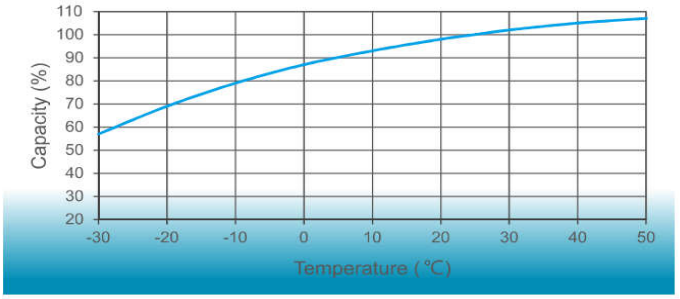
VRLA AGM-GEL / Non Spilable / Maintenance Free

AEG MOTIVE ENERGY

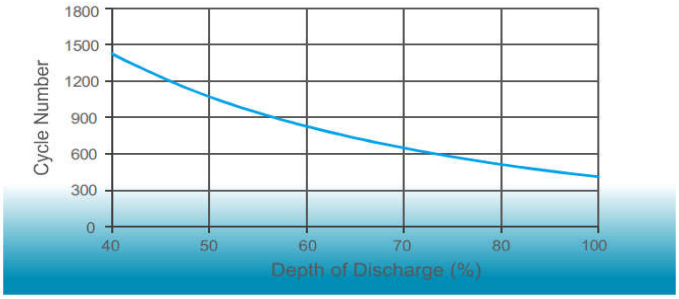
Discharge Curve (25 °C)



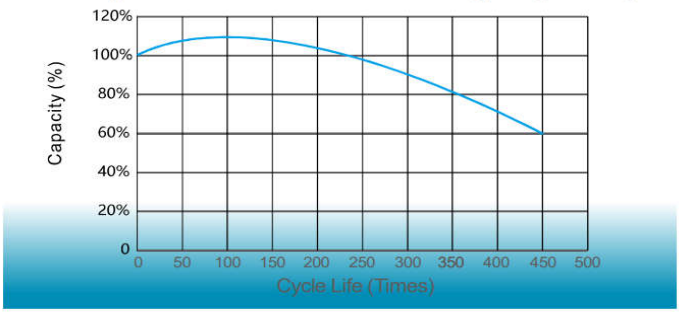
Temperature Vs Battery Capacity



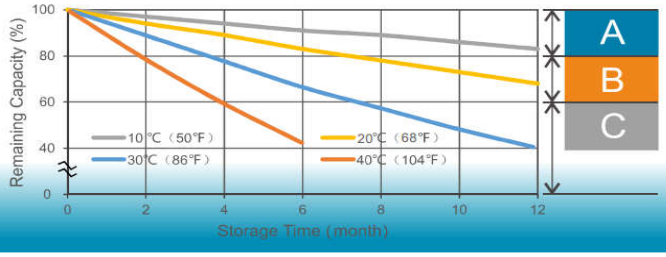
Cycle Life Vs Depth of Discharge



Cycle Life Vs Remaining Capacity



Self Discharge Characteristics

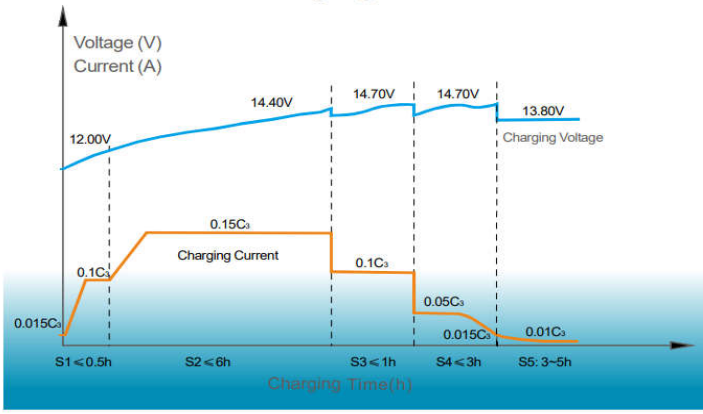


A Charging is not necessary unless 100% of capacity is required.

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.

www.aegbatteries.com Email : info@aegbatteries.com

© 2022 AEG BATTERIES. All rights reserved. AEG BATTERIES Company is not liable for damages that may result from any information provided in or omitted from this from this publication, under any circumstances. AEG BATTERIES Company reserves the right to make adjustments to this publication at any time, without notice or obligation.