

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,ISO14001



SPECIFICATION

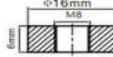
Nominal Voltage				12V (6 cells)	
Nominal Capacity					
20-HR	10-HR	5-HR	3-HR	1-HR	
75Ah	69Ah	65Ah	60Ah	52Ah	
Approximate Net Weight			20,0 kgr (44,09lbs)		
Internal Resistance (approx.)			<6.1milliohms		
CHARGER VOLTAGE SETTINGS (@ 77°F/25°C)					
System Voltage	12	24	36	48	
Max.Charging Current (A)	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	M8-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)					



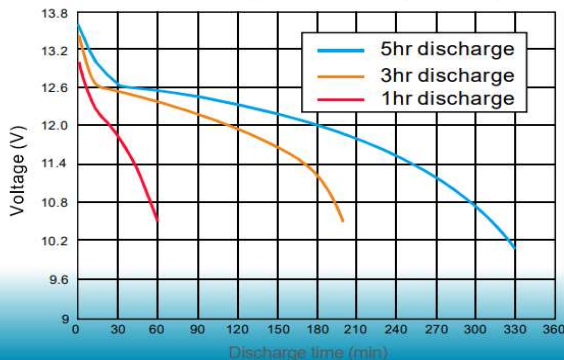
DIMENSIONS (mm)



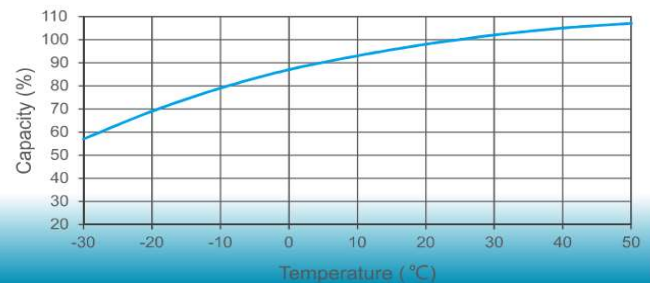
L: 260mm [10.23in] W: 168mm [6.61in]
H: 170mm [6.69in] TH: 170mm [6.69in]

Terminal type	M8-16
	
Torque Values (Nm) Bolt: 15-17	

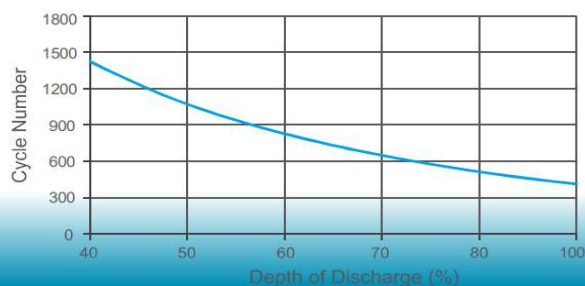
Discharge Curve (25 °C)



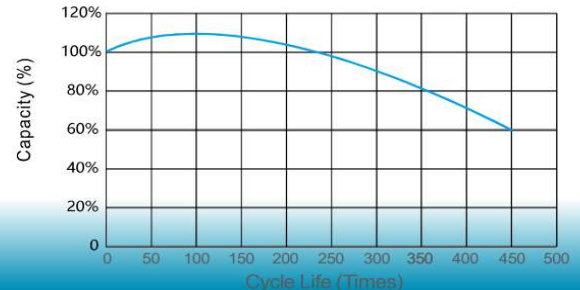
Temperature Vs Battery Capacity



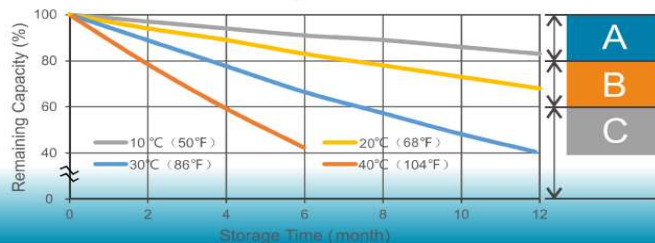
Cycle Life Vs Depth of Discharge



Cycle Life Vs Remaining Capacity

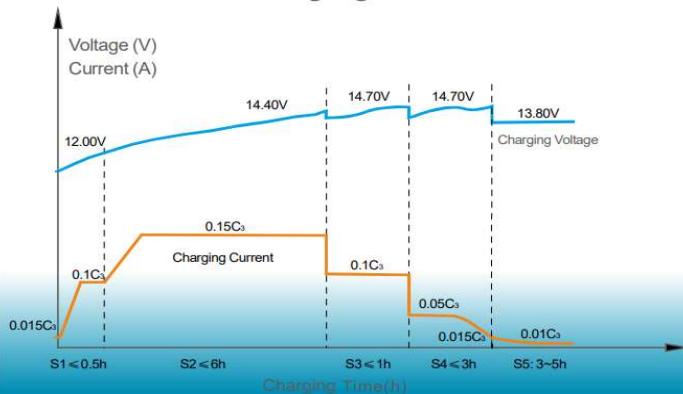


Self Discharge Characteristics



- 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 0.1C₃ 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 0.15C₃ 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 0.1C₃ for 1h, automatically jump to the fourth stage
- (4) The forth stage: Constant voltage 14.7V limited current 0.05C₃ charging, when the current gradually drops to 0.015C₃ or last 3h, automatically jump to the fifth stage
- (5) Fifth stage: Float charging, voltage 13.8V, limited current 0.01C₃ for 3-5h (if the current at this stage keep the value no change at 0.01C₃ for more than 1h, the charger should alarm)

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