12Volt

80ah @3hr 105ah @20hr

VRLA AGM-GEL / Non Spilable / Maintenance Free



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

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

















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

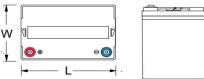
Nominal Vol	tage			1	2V (6 cell	s)
Nominal Cap	acity					
20-HR	10-HR	5-HR	3-F	lR	1-HR	
105Ah	94Ah	86Ah	80	Ah	69Ah	
Approximate	e Net Weight		2	25,7 kgr	(56.60 lb	s)
Internal Res	x.)		< 6	milliohn	าร	
CHARGER VOLTAGE SETTINGS (@ 77°F/25°C)						
System Voltage		12	24	36	48	
Max.Charging Current (A)			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				N	18-Ф16	
Operating Temp. Range		-25	-25°C to 55°C (-13°F to 131°F)			
Recom. Operating temp.		:	15°C to 25°C (59°F to 77°F)			
Self Discharg	ge					
1 month				97%		
3 months				91%		
6 months				83%		
				0-		

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)





Terminal type	M8-16			
ψ16mm Me	Battery Height with Terminal in millimeter (in) 218mm (8.58in) Torque Values (Nm) Bolt: 15-17			

L: 260mm [10.24 in] H: 212mm [8.35 in] W: 168mm [6.61 in] **TH: 218**mm [8.58 in]

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

**EVF Series Motive Battery** 

6-EVF-80

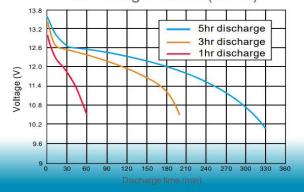
12Volt

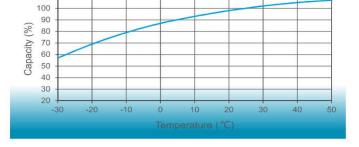
80ah @3hr 105ah @20hr

VRLA AGM-GEL / Non Spilable / Maintenance Free









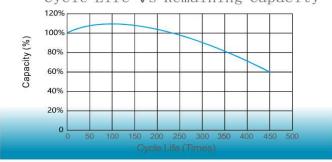
Temperature Vs Battery Capacity

110

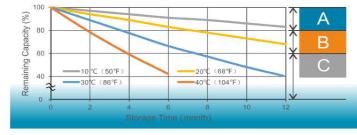
#### Cycle Life Vs Depth of Discharge



### Cycle Life Vs Remaining Capacity

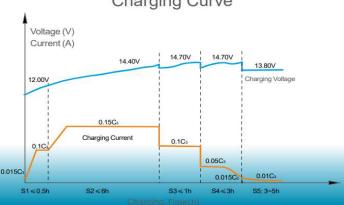


### Self Discharge Characteristics



- A Charging is not necessary unless 100% of capacity is required.
- Charging before use is necessary to help recover full capacity.
- 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 0.015C<sub>3</sub> or last 3h, automatically jump to the fifth stage
- (5) Fifth stage: Float charging, voltage 13.8V, limited current 0.01C<sub>3</sub> 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)

#### www.aegbatteries.com

Email: info@aegbatteries.com