

SPECIFICATION

Nominal Voltage	12V (6 cells)			
Nominal Capacity				
20-HR.	10-HR	5-HR	3-HR	1-HR
42Ah	39Ah	36Ah	32Ah	27Ah
Approximate Net Weight	10.2 kg (22.5 lbs)			
Internal Resistance (approx.)	<7.2 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

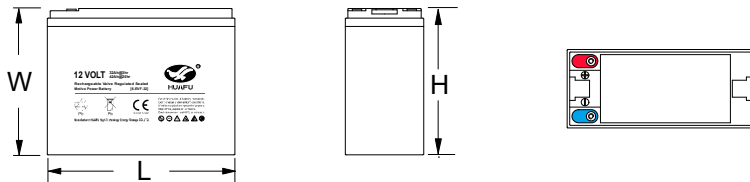
Terminal	M6-Φ16
Operating Temp. Range	-25°C to 55°C(-13°F~131°F)
Advice Operating Temp.	15°C~25°C(59°F~77°F)

Self Discharge	
1 month	97%
3 month	91%
6 month	83%

HUAFU 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.
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DIMENSIONS (mm)

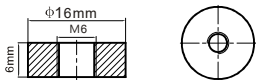


L:222mm [8.74in]

W:93mm [3.66in]

H:175mm [6.89in]

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

Terminal type	M6-16
	<p>Battery Height with Terminal in millimeter (in) 175mm [6.89in] Torque Values (Nm) Bolt: 9-11</p>

EVF[®] Series
Motive Power Battery

6-EVF-32

12 VOLT

Capacity: 32Ah@3hr
42Ah@20hr

TYPE: VRLA AGM / Non-Spillable / 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 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

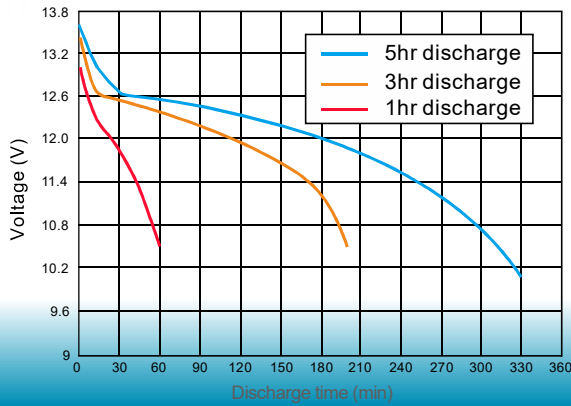


Sweeper

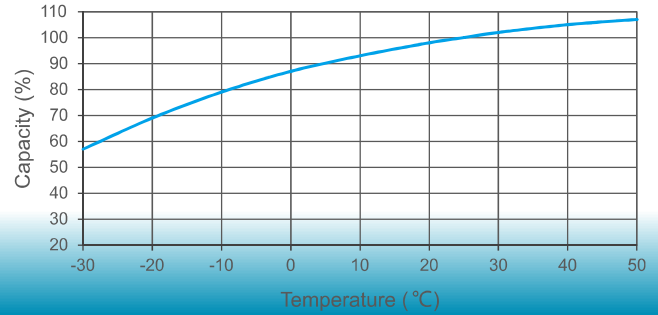
FEATURE

- 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

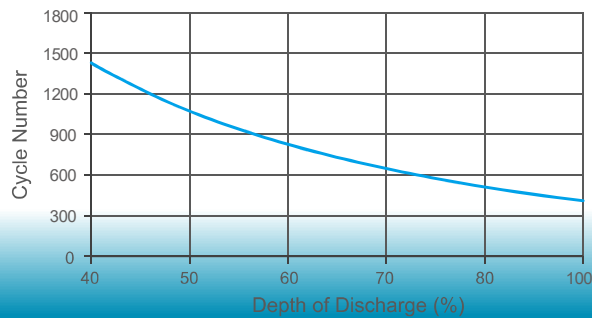
Discharge Curve (25 °C)



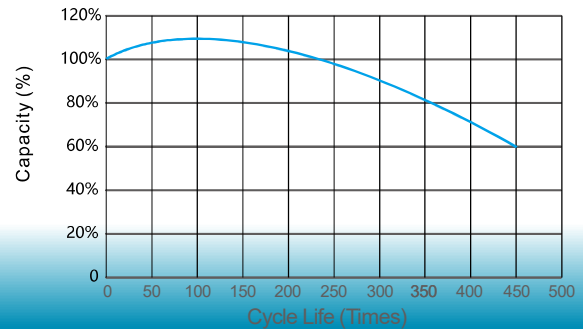
Temperature Vs Battery Capacity



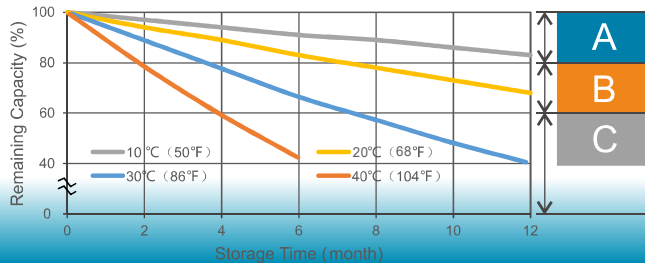
Cycle Life Vs Depth of Discharge



Cycle Life Vs Remaining Capacity

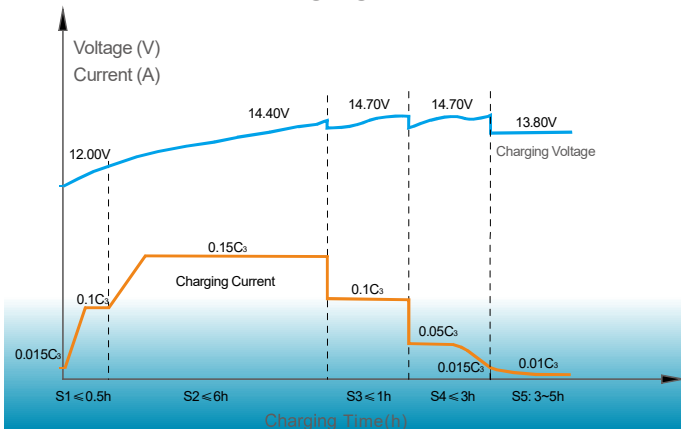


Self Discharge Characteristics



- 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 fourth 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.