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3-EVF-200A

6V 200Ah(3hr) VRLA GEL BATTERY



Chilwee EVF Series VRLA Gel Battery is specially designed for electric vehicles, i.e. electric automobiles, electric road vehicles, golf cart, low speed electric cart, etc. and other devices require DC power source. The EVF Series adopts international leading technologies to ensure the batteries with features of long cycle life, large current discharge capability, high reliability and safety, and environmental-friendly.

FEATURES

Extra Long Life: Chilwee EVF Series are designed with high quality grid alloy enables the grid with features of anti-corrosion, low gas emission and excellent deep cycle performance, as well as high density and special deep cycle lead paste prescription is adopted to ensure extra long cycle life. The cycle life may reach 600+ cycles @ 80% DOD.

High Capacity and High Energy Density: Chilwee EVF Series are designed with adequate active material and higher electrolyte density to increase the battery's capacity within certain dimension and weight, so as to keep the battery with high energy density to be compatible with most of the electric vehicle without providing extra space to install batteries.

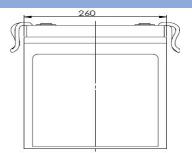
High Reliability and Safety: High strength ABS battery container and lid, perfect safety valve design, and high strength & excellent large current electroconductivity copper terminal design are adopted to ensure the Chilwee EVF Series with high reliability and safety at extreme condition.

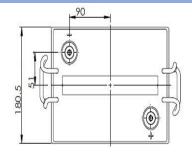
High Environmental Adaptability: Chilwee EVF Series adopts special fumed silica Gel in electrolyte and special Gel type separator to prevent electrolyte sratification. This can significantly improve the battery's service life and environmental adptability.

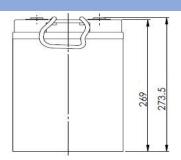
Non-Cadmium Design, Environment-friendly: Chilwee Battery has adopted internationally leading technology - container formation non-cadmium production technology, which is in the leading position in the industry. It helps to save energy 28.5%, save water 90%, and non-discharge of waste water.

SPECIFICATION		
Nominal Voltage (V)		6V
Open Circuit Voltage (V/Block)		6.4V - 6.7V
Number of Cells (Per Block)		3Cells
Rated Capacity (Ah, 25℃)	2h rate (to 1.75V/Cell)	180Ah
	3h rate (to 1.75V/Cell)	200Ah
	5h rate (to 1.80V/Cell)	220Ah
	10h rate (to 1.85V/Cell)	250Ah
	20h rate (to 1.85V/Cell)	260Ah
Nominal Weight (Kgs)		Approx. 33.3±0.3gs
Dimension (L X W X H, Total Height. mm)		(260mm±3) X (180mm±3) X (270mm±3), (273mm±3)
Container Material		Enhanced ABS
Charge Voltage	Float (V/Block)	6.90V
	Cycle (V/Block)	7.33V - 7.38V
Maximum Discharge Current (A)		1000A (5s)
Maximum Charge Current (A)		30A

DIMENSION





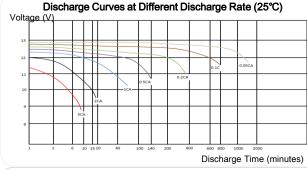


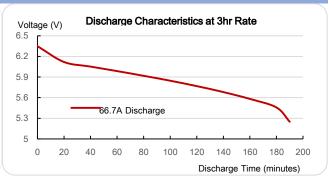
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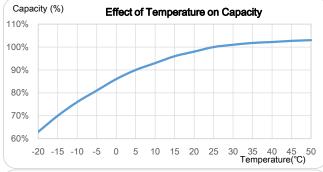


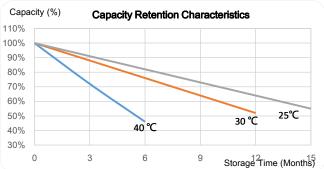
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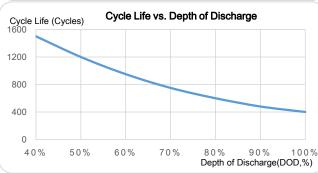
TECHNICAL CURVES

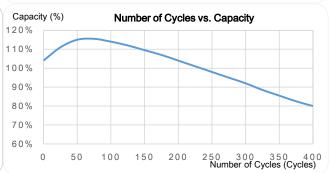












CHARGE CURVE & METHOD

Charge Curve for 3-EVF-200A (for Single Cell)

Charge Method

- 1. Pre-charge Stage: When the battery is connected to the charger, the charger shall detect the voltage of the battery. For the battery's voltage at between V1-V2 or the battery pack is pre-charged at a current betweent I0-I1. When the battery's voltage reaches V2 or the charge time reaches S1, the charge enters into next stage. Parameters refer to Table 1, Appendix.
- 2. Constant Current Charge Stage: Charge current is 12; When the charge voltage reaches V3 or the charge time reaches S2, the charge enters into next stage. Parameters refer to Table 2, Appendix.
- 3. Constant Current Charge Stage: Charge current is I3; When the maximum voltage reaches V4 or the charge time reaches S3, the charge enters into next stage.Parameters refer to Table 3, Appendix.
- 4. Constant Voltage Limited Current Charge Stage: The constant charge voltage is V4, limited current is I4. When the charge current drops to the lower limit value of I4 as Table 4 shown, or the charge time reaches S4, the charge enters into next stage. Parameters refer to Table 4, Appendix.
- 5. Trickle Charge Stage: When the charge time S2 is less than 3 hours, trickle charge is not activated. Otherwise the limited voltage is V5 the constant current is I5 or the charge time reaches S5,the charge enters into next stage.Parameters refer to Table 5, Appendix.
- 6. Float Charge Stage: Constant voltage is V6, limited current is I6. The charger shall be cut off while the charge time is within 4 hours. Parameters refer to Table 6, Appendix.

Detailed Charging Parameters please refer to "APPENDIX II: CHARGE PARAMETERS FOR EVF SERIES"

* All the data and technical curves are for customer's reference only. This information is subject to change without any prior notice. For More Information, please contact:

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APPENDIX II: CHARGE PARAMETERS FOR EVF SERIES Table 1 - Parameters for Pre-charge Stage Voltage Range: V₁ - V₂ Constant Current: I₀~I₁ Pre-Charge Time: S₁ Temperature Compensation Battery Model (V/°C) (V per Block) (A) (h) 3-EVF-180A 3.0V - 6.0V 3.1A - 18.0A 3-EVF-200A / 3-EVF-200T 4.0V - 8.0V 2.2A - 14.0A 4-EVF-150A/4-EVF-150 6-EVF-60 6.0V - 12.0V 2.0A - 6.0A 6-EVF-70T 6.0V - 12.0V 2.0A - 7.0A ≤ 0.5h 6-EVF-80 6.0V - 12.0V 2.0A - 8.0A 6-EVF-100A / 6-EVF-100T 6-EVF-110T 6.0V - 12.0V 2.5A - 11.0A 6-FVF-120 6 0V - 12 0V 2.5A - 12.0A 6-EVF-150A / 6-EVF-150T 6.0V - 12.0V 2.5A - 15.0A Table 2 - Parameters for Constant Current Charge Stage Voltage Range: V₃ Constant Current: I2 Charge Time: S₂ Temperature Compensation Battery Model (V per Block) (A) (h) (V/°C) 3-EVF-180A -0.012 7 2 V 30 0A 3-EVF-200A / 3-EVF-2001 25.0A -0.016 4-EVF-150A/4-EVF-150 9.6V 6-FVF-60 14 4V 10.0A -0.024 6-EVF-70T 14.4V 12.0A -0.024≤ 6h 6-EVF-80 14.4V 14.0A -0.024 6-EVF-100A / 6-EVF-100T 14.4V 15.0A -0.02420.0A -0.024 6-EVF-120 14.4V 6-EVF-150A / 6-EVF-150T 14.4V 25.0A -0.024 Table 3 - Parameters for Constant Current Charge Stage Voltage Range: V₄ Constant Current: I₃ Charge Time: S₃ Temperature Compensation Battery Model (V per Block) (h) (V/°C) 3-EVF-180A 7.35V 30.0A -0.012 3-EVF-200A / 3-EVF-200T 25.0A -0.016 6-EVF-60 14.70V 10.0A -0.024 6-EVF-70T 14.70V 12.0A -0.024 ≤ 2h 6-FVF-80 14 70\/ 14.0A -0.0246-EVF-100A / 6-EVF-100T 14.70V 15.0A -0.024 6-EVF-110T 14.70V 20.0A -0.0246-EVF-120 20.0A 14.70V -0.024 14.70V -0.024 25.0A Table 4 - Parameters for Constant Voltage Limited Current Charge Stage Voltage Range: V₄ Limited Current: I₄ Charge Time: S₄ Temperature Compensation Battery Model (V per Block) (A) 10.0A - 3.2A (V/°C) (h) 3-FVF-180A -0.012 3-EVF-200A / 3-EVF-200T 7.35V 10.0A - 3.6A -0.012 4-EVF-150A/4-EVF-150 9.80V 7.5A - 2.7A -0.016 6-EVF-60 14.70V 3.0A - 1.1A -0.024 6-EVF-70T 3.5A - 1.3A ≤ 2h 6-EVF-80 14.70V 4.0A - 1.5A -0.024 6-EVF-100A / 6-EVF-100T 14.70V 5.0A - 1.8A -0.024 6-EVF-110T 14 70\/ 6.0A - 2.0A -0.0246-EVF-120 14.70V 6.0A - 2.2A -0.024 6-EVF-150A / 6-EVF-150T 7.5A - 2.7A 14.70V -0.024 Table 5 - Parameters for Trickle Charge Stage Voltage Range: V₅ Limited Current: I₅ Charge Time: S₅ Temperature Compensation Battery Model (V per Block) (h) 3-EVF-180A 8.01V -0.012 3-EVF-200A / 3-EVF-200T 8.01V 2.0A -0.012 4-EVF-150A/4-EVF-150 10.68\/ 1 5A -0.016 6-EVF-60 0.6A 16.02V -0.024 6-EVF-70T 16.02V -0.024 0.7A ≤ 2h 6-EVF-80 16.02V 0.8A -0.024 6-EVF-100A / 6-EVF-100T 16.02V 1.0A -0.024 6-EVF-110T 16.02V 1.1A -0.024 6-EVF-120 16.02V 1.2A -0.024 6-EVF-150A / 6-EVF-150T 16.02V 1.5A -0.024 Table 6 - Parameters for Float Charge Stage Voltage Range: V₆ Limited Current: I₆ Charge Time: S₆ Temperature Compensation Battery Model (V per Block) (V/°C) (h) 3-EVF-180A 3-EVF-200A / 3-EVF-200T 6.9V 2 0A -0.012 4-EVF-150A/4-EVF-150 9.2V 1.5A -0.016 6-EVF-60 13.8V 0.6A -0.024 6-FVF-70T 13.8\/ 0.7Α -n n24 ≤ 4h 6-EVF-80 13.8V -0.024 0.8A 6-EVF-100A / 6-EVF-100T 13.8V -0.024 1.0A -0.024 6-FVF-120 1 2A -0.024 6-EVF-150A / 6-EVF-150T 13.8V 1.5A -0.024