

6-DF-260

Dryfit 6 Volt 260Ah(20hr) VRLA GEL BATTERY



Dryfit DF 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 DF 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: Dryfit DF 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: Dryfit DF 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 Dryfit DF Series with high reliability and safety at extreme condition.

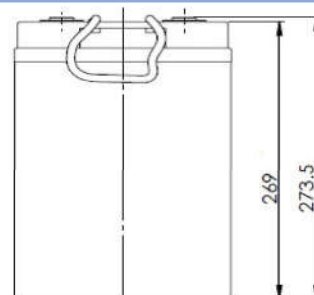
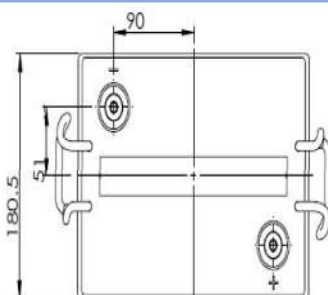
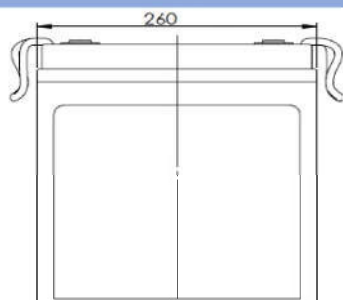
High Environmental Adaptability: Dryfit DF Series adopts special fumed silica Gel in electrolyte and special Gel type separator to prevent electrolyte stratification. This can significantly improve the battery's service life and environmental adaptability.

Non-Cadmium Design, Environment-friendly: Dryfit 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

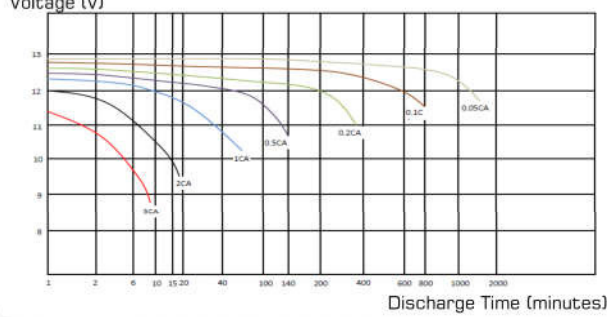
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|---|--------------------------|--|
| Nominal Voltage (V) | | 6V |
| Open Circuit Voltage (V/Block) | | 6.4V - 6.7V |
| Number of Cells (Per Block) | | 3Cells |
| Rated Capacity (Ah, 25°C) | 2h rate (to 1.75V/Cell) | 180Ah |
| | 3h rate (to 1.75V/Cell) | 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. 36Kgs |
| 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) | 6.30V |
| | Cycle (V/Block) | 7.33V - 7.38V |
| Maximum Discharge Current (A) | | 100(A (5s) |
| Maximum Charge Current (A) | | 30A |

DIMENSION

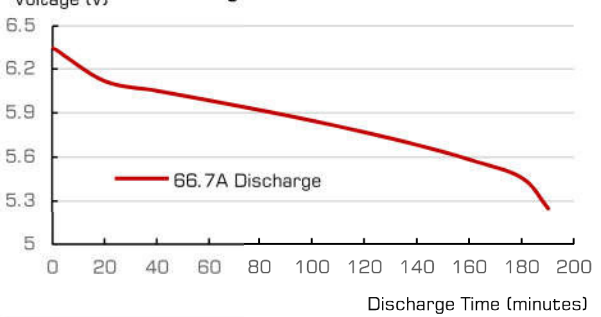


TECHNICAL CURVES

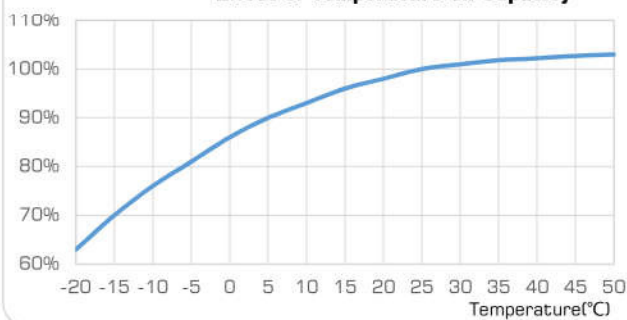
Discharge Curves at Different Discharge Rate (25°C)



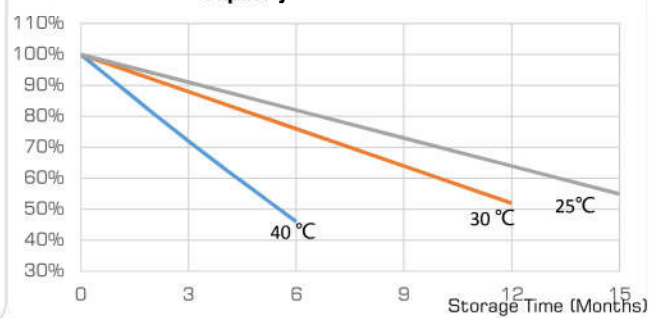
Discharge Characteristics at 3hr Rate



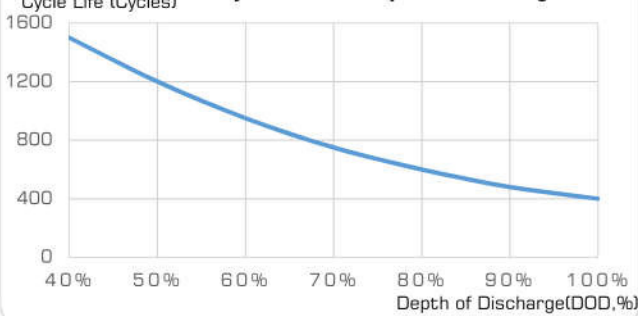
Effect of Temperature on Capacity



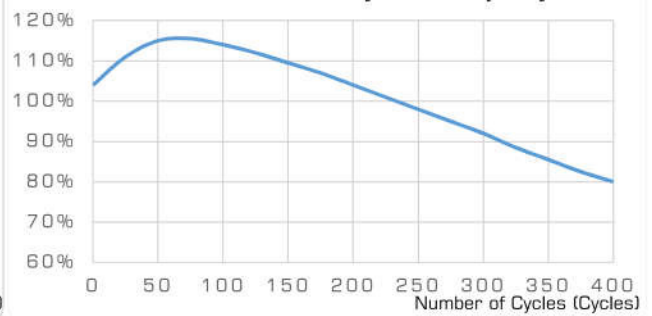
Capacity Retention Characteristics



Cycle Life vs. Depth of Discharge

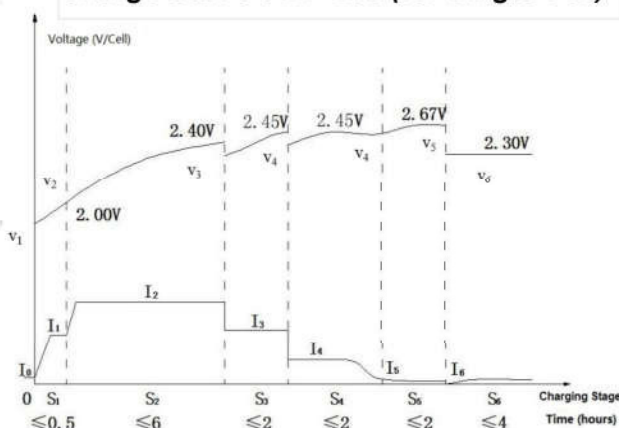


Number of Cycles vs. Capacity



CHARGE CURVE & METHOD

Charge Curve 6-DF-260 (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 between 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 I2; 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.