



# 50Ah 12V LiFePO<sub>4</sub> Deep Cycle Battery

## Model DF1250

This 12 volt 50 amp hour deep cycle LiFePO<sub>4</sub> battery offers 2 to 3 times the power in the same physical space as a lead-acid. The stable chemical composition and built-in battery management system in our batteries provides you with safe and reliable power.

These low-maintenance batteries are a fifth of the weight of a comparable lead-acid. Our batteries are capable of being discharged to 100% of their rated capacity every time. They can be charged 5 times faster than lead-acid, so you can get out there and stay out there longer!



Intertek  
5011501



CONFORMS TO  
UN38.3  
Conforms to UL STD 62133-2  
Certified to CSA STD C22.2# 62133-2  
Conforms to UL STD 2054



Designed & Assembled  
in the USA

\*Heated Option Also Available

### Specifications

- 50 Amp Hour, 12 Volt Battery
- LiFePO<sub>4</sub> Chemistry
- 3000-5000 Cycles
- Dimensions (L x W x H):  
10.49" x 7.11" x 8.93"
- 22 lbs.
- Operating Temp Range:  
-4°F (-20°C) to 135°F (57.2°C)
- Water Resistant and Sealed  
(Batteries should not be submerged)
- Built-in BMS  
(Battery Management System)
- Designed and Assembled  
in the USA

### Charging Parameters

- Absorption Voltage:  
14.2V to 14.6V
- Float Voltage:  
13.4V to 13.8V
- Equalization Voltage:  
14.4V (if Applicable)
- Absorption Time:  
20 - 30 minutes per  
50Ah battery bank
- No Temperature  
Compensation

### Built-in Battery Management System

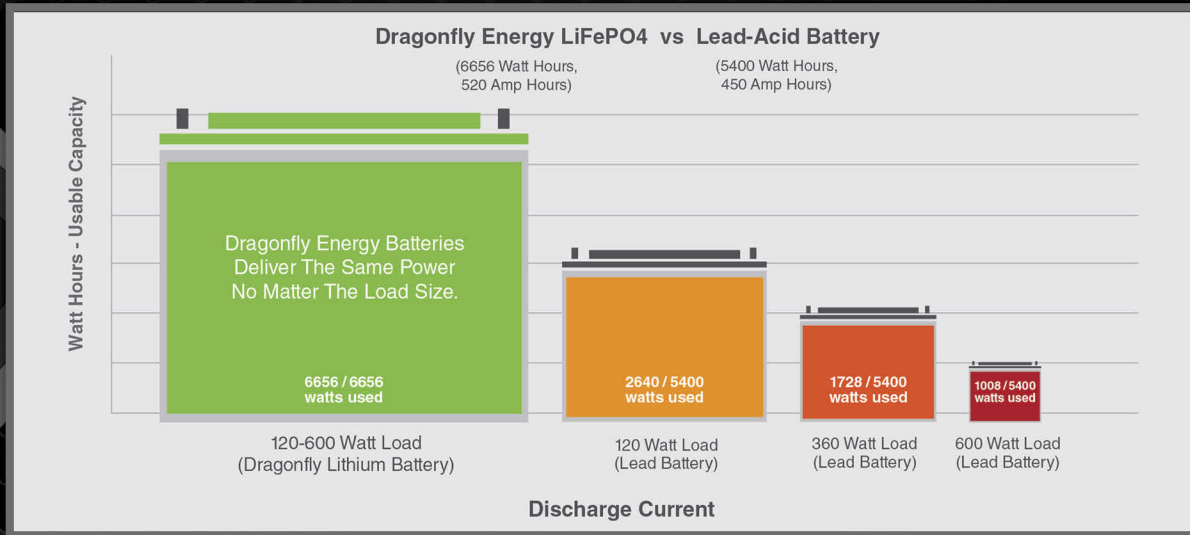
- 120 Amps Continuous
- 100 Amps Surge for 30 Seconds
- ½ Second Surge for Larger Loads
- High/Low Voltage Protection
- Short Circuit Protection
- High/Low Temperature Protection
- Cold Charging Protection
- Automatic Cell Balancing at Top  
of Charge

Please Note: This built-in protection will reset after 5 seconds in most fault conditions. Disconnecting the battery from loads will also reset the BMS.

# Leading the "Lead is Dead" Revolution

At Dragonfly Energy, we're creating a new standard in green energy storage. Our team of battery experts works diligently to find new ways for you to get more mileage out of your RV, boat, and off-grid systems, and we design and assemble every battery in the USA because quality isn't only a standard but our highest expectation.

Make the switch *from* lead-acid, make the switch *to* lithium!



## Batteries

Dragonfly Energy offers a full line of lithium-ion deep cycle batteries for 12-volt, 24-volt and 48-volt systems, the ultimate replacements for traditional lead acid batteries and relief of battery anxiety... Lead Is Dead. Implementing the latest technologies and producing products with efficiency, safety, and performance in mind, our LiFePO4 batteries are designed to keep you out there longer, wherever that might be.

## Technical Support

Dragonfly is not only revolutionizing the industry in green energy storage, but in technical and sales support too. Our in-house team is here to provide an extraordinary customer experience, lifetime support, and valuable resources and information to make your switch to lithium exactly the way you envision.

## What Makes Dragonfly Different?

When you replace your traditional lead-acid battery with a Dragonfly Energy lithium-ion battery, you can expect a few things—5,000 to be exact. Each Dragonfly Energy LiFePO4 battery is capable of 3,000-5,000 charge cycles\*, is lighter in weight and is equipped with an internal Battery Management System (BMS) to protect your battery and its longevity.

\* Under most usage scenarios, after 3000 - 5000 cycles, approximately 75% of battery capacity remains.

**Dragonfly Energy researches, designs, and assembles the most advanced deep cycle lithium-ion batteries in the world. Get in touch for partnership, wholesale, and distribution opportunities today!**