

10012H

Lithium Ion
Battery

The LiFePO₄ Dragonfly Battery

The pinnacle of quality and safety at an unbeatable price point.

Model DFTH010012H

This 12 volt 100 amp hour deep cycle LiFePO₄ 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!

Built to last 10 to 15 years and backed by an industry leading warranty, at Dragonfly Energy, we're leading the green energy change.



DESIGNED AND ASSEMBLED IN
USA



Specifications

- 100 Amp Hour, 12 Volt Battery
- LiFePO₄ Chemistry
- 3000-5000 Cycles
- Dimensions (L x W x H):" 12.76" x 6.86" x 8.95"
See QR Code below
- 31 lbs.
- Operating Temp Range:
4°F (-20°C) to 135°F (57.2°C)
- Water Resistant and Sealed" (Batteries should not be submerged)
- Designed and Assembled in the USA
- Built-in BMS (Battery Management System)

Charging Parameters

- Absorption Voltage:
14.2V to 14.6V
- Float Voltage:
13.4V to 13.8V
- Equalization Voltage:
14.4V (if Applicable)
- Absorption Time:
30 minutes
per 100Ah battery bank
- No Temperature Compensation

Built-in Battery Management System

Our BMS keeps you and your battery safe and ensures your battery will last for many years.

- 100 Amps Continuous
- 200 Amps Surge for 30 Seconds
- 1/2 Second Surge for Loads Over 200 Amps
- 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.



Limitless green energySM



*QR Code

Questions? Call 775-622-3448 or email us at info@dragonflyenergy.com

DFTH010012H FAQs

How long does it take for the heat function to work?

The heater will activate when the internal temperature of the battery reaches 35 degrees F. If the battery has been exposed to below freezing temperatures for a long time without the heater enabled, it will take 2 to 4 hours for the internals of the battery to heat up enough for the battery to take a charge.

How much power does the heat function consume?

On average the internal heating function consumes about 1.8 amps. Our tests show at 0 degrees F with no insulation, the heater function is on about 30% of the time.

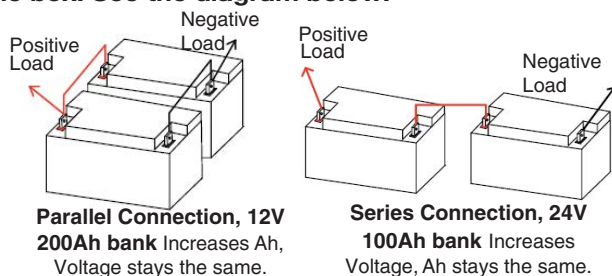
How do I properly store my DFTH010012H batteries?

We recommend bringing the Dragonfly Energy batteries to 100% state of charge. Then, disconnect the battery from any load by removing the negative cable from one battery. By disconnecting this way, your batteries only losing 3-5% of stored energy a month. To deactivate the heat enable function for storage, simply discon-

If you do not have a battery monitor, you can purchase a multimeter to monitor the voltage of your batteries. Please reference the voltage vs capacity table.

Is it necessary to charge my batteries out of the box?

Yes, if you are connecting your batteries in series you will need to charge your batteries out of the box. If you are connecting in parallel then you do not need to charge out of the box. See the diagram below.



Dragonfly Energy researches, develops, and distributes the most advanced and fairly priced deep cycle lithium-ion batteries in the world.

Call us for partnership, wholesale, and distribution opportunities or to place your order today!

Voltage vs Capacity

VOLTAGE LEVEL	14.4V	100%	REMAINING CAPACITY
	13.6V	100%	
	13.4V	99%	
	13.3V	90%	
	13.2V	70%	
	13.1V	40%	
	13.0V	30%	
	12.9V	20%	
	12.8V	17%	
	12.5V	14%	
	12.0V	9%	
	10.0V	0%	

Quick Installation Tips:

- Torque specifications - 9 to 11ft-lb.
Do NOT finger tighten
- Our batteries do not require ventilation since they do not emit fumes or gases, so you can put them in an enclosed areas.
- Our batteries can be mounted in any orientation that is suitable for you.
- Do NOT reverse the polarity of the battery, as this will damage both the battery and the device connected.
- The batteries come equipped with a 3/8" hole on the terminal to fit either a 3/8" or a 5/16" bolt.



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