

Introduction

The Submersible Battery Package contains a rechargeable lithium-ion battery, a battery pack charger and a battery cable. The battery pack is used together with the internal datalogger package to provide self-contained use for the PhytoFlash Active Fluorometer. The pack has a 600m depth rating and facilitates vertical profiling and moored applications.

Charging the Battery

1. Carefully align the battery's connector to the pins of the charger, and push the battery straight onto the charger.
2. Plug the charger into a standard wall outlet and allow the battery to charge for 6 hours for a complete battery charge.
3. When finished, unplug the charger and remove the battery by pulling the battery straight out from the charger's connector.

Connecting the Battery

1. Plug the 12-pin side of the cable (B) into the PhytoFlash bulkhead connector (A) and secure the locking sleeve.
2. Plug the 8-pin side of the cable (B) into the PhytoFlash Submersible Battery (C) and secure the locking sleeve.
3. Secure the PhytoFlash and Submersible Battery to a stable platform.
4. The instrument will begin sampling at the programmed interval.



General Precautions

Under no circumstances should you attempt to open the battery housing. Please contact Turner Designs if you have any problems or questions related to the battery pack.

Battery Life

The battery is designed, when fully charged, to exceed Internal Data Logging capacity at the maximum sampling rate. For longer deployments at shorter sampling intervals, we recommend recharging the battery after the Internal Data Logger is full or every 3-4 months, whichever comes first.

Specifications

Dimensions	5.3" x 2.75" (13.46cm x 7.0cm)
Weight in Air	1.65lbs (0.75kg)
Weight in Water	0.50lbs (0.22kg)
Material	Delrin
Rated Depth	600m (1969')
Voltage Output	14.8V nominal
Battery Type	Lithium-Ion
Number of Cells	4
Capacity	2,200 mA·H
Charge Time*	6 hours
Connector	8 pin connector
Protection Features	Protects against: overcharge, over-discharge overheating, short-circuiting

*Charge with Turner Designs charger only