

BAT100A RECHARGEABLE BATTERY PACK***BAT100A with Recharger***

The BAT100A is a high energy density and lightweight battery pack designed to operate MP160/150 or MP3X Systems. A universal input voltage 3 amp battery charger is also included. The battery pack is lightweight and comes with a supplied carrying case with integral shoulder strap. The carrying case holds battery pack, charger and all associated cords.

The BAT100A chemistry is Lithium Iron Phosphate (LiFePO₄). A key advantage over other lithium-ion batteries is the superior thermal and chemical stability, which provides better safety characteristics than other lithium-ion batteries with different cathode materials. Due to the significantly stronger bonds between oxygen atoms in the phosphate, oxygen is not readily released, and as a result, lithium iron phosphate cells are virtually incombustible in the event of mishandling during charge or discharge, and can handle high temperatures without decomposing. Ships as USA or EURO version based on delivery address.

BAT100A replaces BAT100 effective June 2011.

Operation

1. Only charge the BAT100A (12 V @ 15 AH LiFePO₄) using the included charger.
2. Discontinue use of the BAT100A when the performance of the MP System begins to deteriorate.

Charging the Battery Pack

1. When the BAT100A is being charged, the charger will indicate a **RED** charging LED.
2. When the BAT100A is fully charged, the charger will indicate a **GREEN** charging LED.

Storage

1. Store the Battery Pack in a fully charged condition.
2. Store the Battery Pack in a cool place (normal room temperature or lower).

BAT100A BATTERY PACK SPECIFICATIONSBattery

Chemistry:	LiFePO ⁴ (Lithium Iron Phosphate)
Output Capacity:	12 V @ 15 amp-hours
Working Output Voltage Range:	13.2 V – 12 V
Output Connector:	DC Barrel Plug (5.5 mm OD, 2.1 mm ID – Center positive)
Operating Time:	MP3X with 4 sensors: 26 hours nominal MP160/150 with 4 modules: 16 hours nominal
Charge Time:	5 hours (nominal)
Recharge Cycles: (number of cycles to 80% of original capacity):	1500 (typical minimum)
Operating Temperature Range:	0° C to 45° C
Storage Temperature Range:	-20° C to 60° C
Weight:	2.45 kg
Dimensions: (includes carrying case)	14 cm (high) x 19 cm (wide) x 14 cm (deep)

Battery Charger (For BAT100A only)

Maximum Nominal Charge Voltage:	14.4 V @ 3.0 amps (Charges at 3 amps to 14.4 V, then potentiostatic at 14.4 V until current is less than 0.5 amps)
Input:	120/240 VAC @ 50/60 Hz (USA or EURO power cord)
Output Connector:	DC Barrel Socket (5.5 mm OD, 2.1 mm ID – Center positive)
Operating Temperature Range:	0° C to 45° C
Storage Temperature Range:	-20° C to 60° C
Weight:	285 grams
Dimensions:	3.8 cm (high) x 6.4 cm (wide) x 15 cm (long)