



### Monitex® Power Pack

With the Monitex® Power Pack, designed to be used with our Monitex® Portable Noise Level Warning System, you can ensure that there are no breaks in your data collection.

In all types of weather conditions, this this powerful and robust power pack will keep your noise monitoring on track.

#### Key Applications

- ✓ For charging the Monitex® Portable Noise Level Warning System

#### Features & Benefits

- ✓ IP67 waterproof case
- ✓ Two external IP68 connectors provided
- ✓ Output voltage is nominally 12.8V
- ✓ Rated capacity of 35 Amp Hours
- ✓ Maximum output current of 1.5A





## Monitex® Power Pack

### External Battery Pack

The systems external battery pack is contained in an IP67 waterproof case. Two external IP68 connectors are provided, one for charging of the battery and the second for providing power to the sound level monitor. The case and connector locations are shown in Figure 1. The battery output voltage is nominally 12.8V and has a rated capacity of 35 Amp Hours. The battery pack is 10kg in weight.



Figure 1: Monitex® External Battery Pack



## Monitex® Power Pack

### Operation

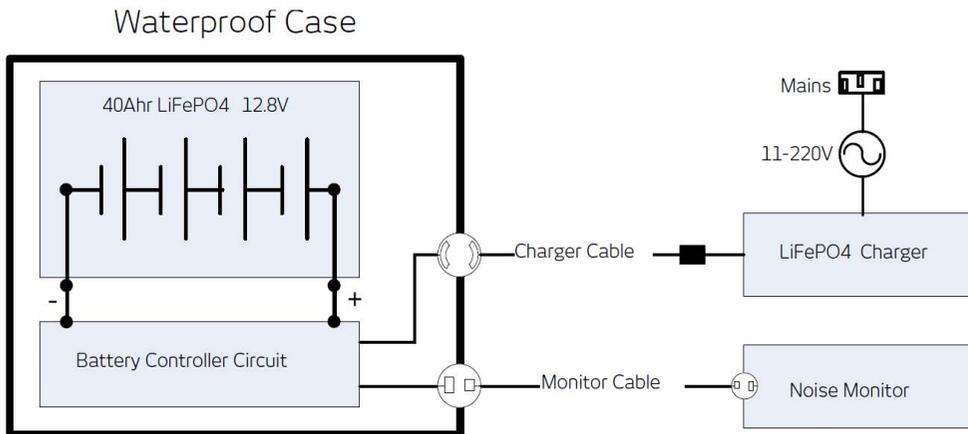


Figure 2: Monitex® Power Pack battery pack schematic overview

The battery setup is illustrated in Figure 2. The Power Pack battery is connected to the charger and noise monitor through a battery controller circuit contained in the waterproof case. This battery controller will disable power when the output voltage falls to 11.5V and will disconnect the charger if the input voltage exceeds 15.5V.

### Charging

The charger supplied with the pack is designed to charge the Power Pack battery configuration and will switch off once the voltage reaches the optimum level.

The charger is supplied with a weatherproof connector which matches the large connector on the front of the battery pack. The charging cable should be connected to the charger input on the front of the Power Pack waterproof case.

The charger is rated at 5 Amps and will take approximately 12 hours to fully charge the battery from empty. When charging is complete the LED light on the charger will change from red to green.

When the battery pack is in use in the field the battery charger input connector should not be exposed to the environment. A tethered waterproof sealing cap is provided and should be placed on the charger connector.

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### Power Output

The monitor is connected to the battery using the 1m power cable supplied with the power pack. The power cable has matched IP68 connectors for the battery output and sound level monitor power input. The output voltage of the battery pack is regulated at 12V and provides a maximum output current of 1.5A.

### Power Switch and Long Term Storage

The monitor is connected to the battery using the 1m power cable supplied with the power pack. The power cable has matched IP68 connectors for the battery output and sound level monitor power input. The output voltage of the battery pack is regulated at 12V and provides a maximum output current of 1.5A.

### Technical Specifications

Battery Type	Lithium Iron Phosphate (LiFePO4) or Sealed AGM
Output Voltage	Regulated 12V D C
Max Output Current	1.5A
Charge cut-off voltage	14.4V
Maximum input voltage	16V
Low power cut-off voltage	11.5V
Minimum voltage	10V
Capacity	35Ah
Charger Input voltage	110-240V AC
Overcurrent protection	7.5A fuse on battery controller circuit
Weight	10kg
Enclosure	IP67
Dimensions	340 x 300 x 150mm