

PRODUCT SUMMARY

Air Quality Monitoring – Power Options

Solving your
Monitoring Problems
to make your life easier



AIR QUALITY MONITORING

We understand every project is different, which is why we've designed simple and easy to use power options for every situation. Our systems are portable, rugged and reliable with weatherproof connections and cables making your life easier.

POWER OPTIONS

Item	Power Supply	Power Duration
Mini Powermate	30 Ah Lithium Ion portable battery pack (DC) and AC charger	15 hours
Ultra Powermate	Weatherproof, solar compatible enclosure for 2 x 110 Ah batteries (use with Solar Kit 1)	80 hours
Aluminum Enclosure	Weatherproof, solar compatible enclosure for 2 x 110 Ah batteries (use with Solar Kit 2)	80 hours
DIY Battery Option	Battery Box, 12 V 110 Ah battery and cables	40 hours
Solar Kit 1 and 2	Includes 2 x 150 or 210 W solar panels, mount and cables	All year around
Programmable Timer	On/off daily timer with options for each day of the week	NA



BENEFITS

- ▶ A wide range of options for your project
- ▶ Quick and easy to install
- ▶ Weather proof, color coded connections
- ▶ Extend battery life with timer

MINI POWERMATE

The mini Powermate is our most portable power solution, and can be easily and rapidly charged by AC power.

All components are weather proof and connectors and cables are color coded for ease of use.

FEATURES

- ▶ Weatherproof, durable case (with handle)
- ▶ 12V 30 Ah Lithium ion battery pack
- ▶ AC charger
- ▶ Cable for connecting to monitoring system
- ▶ Waterproof Anderson connectors



BENEFITS

- ▶ Lightweight Lithium Ion Battery
- ▶ Designed for outdoor use
- ▶ 10 hours of battery life (Aeroqual)
- ▶ One week of battery life (Sonitus)
- ▶ Charge with AC power O/N



ULTRA POWERMATE

The Ultra Powermate is a portable, rugged, solar compatible power system that supplies a 12V power source to a remote monitoring station.

The sturdy plastic case has multiple pull handles and wheels for moving the system on site and is built to withstand all weather elements

FEATURES

- ▶ High capacity/quality charge controller
- ▶ Easy to use, weatherproof connections
- ▶ Rugged, wheeled plastic enclosure
- ▶ Built-in automatic pressure equalization valves
- ▶ 6 x sturdy latches
- ▶ Padlockable holes

BENEFITS

- ▶ 24VDC input compatibility ensures max efficiency
- ▶ Quick setup time
- ▶ Modular design gives added flexibility
- ▶ Compatible with most data acquisition systems
- ▶ Ideal for long-term, outdoor monitoring projects



TECHNICAL SPECIFICATIONS

Size:	30" x 23" x 16"
Case Material:	Polyolefin
Case Weight:	48lbs (without batteries),
DC Input Cable (Solar):	Anderson Connector (case), MC4 Connector (solar panel)
DC Output Cable (system):	Anderson Connector (case), system specific (system)
Ingress Protection:	IP65
Power Input:	24 - 40VDC
Power Output:	12VDC (option to be regulated)
Battery Capacity:	200 Ah (100 Ah per battery)
Battery Weight:	120 lbs (60lbs per battery)

DIY BATTERY

A basic method of providing power to a monitoring system is to use a 12 V battery and DC cables

Batteries can be connected in parallel to increase the capacity of the system. Use a programmable timer to extend battery life.

We can provide a battery box, 12 V 110 Ah deep cycle marine batteries and an alligator clip connection to any of our monitoring systems. Please note we do not rent these items.

FEATURES

- ▶ Portable snap-top battery box
- ▶ Fits 1 x 12 V 110 Ah battery
- ▶ UV resistant, fully ventilated
- ▶ Groups: 24 - 31



BENEFITS

- ▶ Economical
- ▶ DIY Solution
- ▶ Purchase our items or use your own



SOLAR KIT 1

Specto provides fully tested solar power kits that connect easily to your monitoring system.

Ground mounted with MC4 connectors and weatherproof Anderson connections for a quick set-up.

FEATURES

- ▶ 24V 150 W Solar Panels
- ▶ Ground mounted
- ▶ Color coded Anderson connectors
- ▶ MC4 connectors
- ▶ Waterproof cables included

BENEFITS

- ▶ Connect directly to Ultra Powermate
- ▶ 24V Solar Panels maximize efficiency
- ▶ Fully tested prior to shipping
- ▶ Set-up with one person
- ▶ Expandable modular design



SOLAR KIT 2

Specto provides fully tested solar power kits that connect easily to your monitoring system.

Pole mounted with MC4 connectors and weatherproof Anderson connections for a quick set-up.

FEATURES

- ▶ 24V 150 W Solar Panels
- ▶ Pole mounted (2 inches)
- ▶ Color coded Anderson connectors
- ▶ MC4 connectors
- ▶ Waterproof cables included



BENEFITS

- ▶ Connect directly to aluminum enclosure
- ▶ 24V Solar Panels maximize efficiency
- ▶ Fully tested prior to shipping
- ▶ Set-up with one person
- Expandable modular design

