

Aeroqual Solar Power Kit Pole Mount



Manufactured by Spectro Technology, the Aeroqual Solar Power Kit Pole Mount provides a reliable, fully tested solar power solution for our air quality perimeter monitoring systems. With Quick Connection cables and batteries pre-installed, this kit ensures easy setup and continuous operation all year round. Designed for portability, the Ultra Powermate battery case includes wheels, and the solar panels are mounted on the pole.

For troubleshooting, our solar charge controller can be accessed via Bluetooth or connected to the Aeroqual system via Ethernet for cloud-based solar diagnostics. Our large kit includes an additional solar panel for locations with lower solar exposure. Custom options include increased battery capacity, heating, and insulation for projects operating in low temperature conditions (< -10 °C).

FEATURES

- Ultra Powermate battery enclosure
- 150 W, 12V Pole-mounted Solar Panels
- LiFePO4 batteries (10-year warranty)
- Quick Connect cabling system
- 20ft Extension Cable for Solar Panels
- Circuit breakers & weatherproof cables
- High capacity MPPT Solar charge controller
- Solar parameters available via Bluetooth/Cloud
- Pre-assembled and installed with LiFePO4 batteries
- Cables, Assembled & tested to ensure hassle-free installation (customer to provide mounting hardware for solar panel bracket and enclosure – e.g. U-bolts)

BENEFITS

- Fully tested prior to shipping
- Expandable modular design
- Fast setup time with Quick Connect
- Portable battery case for any project site
- Fits on a pallet for security/transportation
- Ideal for long-term, outdoor monitoring projects
- Advanced troubleshooting (Bluetooth/Cloud)

TECHNICAL SPECIFICATIONS

Specification	Standard	Large	Custom
Operating Range	14 °F to 135°F (-20 °C to 57 °C), below 20C with heater		
Battery Case Material	Polyolefin		
Battery Case Weight	48lbs (without batteries)		
DC Input Cable (Solar)	Cnlinko (case), MC4 (solar panel)		
DC Output Cable (System)	Cnlinko (case)		
MPPT Solar Charge Controller	Ethernet output		
Ingress Protection	IP65		
Battery Enclosure Dimension	30" x 23" x 16"		
Solar Panel	150W, 12V Monocrystalline		
Circuit Breaker	20Amp 100V	20Amp 100V	Customizable by request
Battery Capacity	2 x 100Ah, 12V (LiFePO4)	2 x 100Ah, 12V (LiFePO4)	Customizable by request
Battery Weight	31 lbs (40lbs per battery)	31 lbs (40lbs per battery)	Customizable by request