

UPAS Outdoor Enclosure

Weatherproof | Solar-ready | Portable | Easy setup



Want to use your UPAS for outdoor monitoring? Our Outdoor Enclosure will protect your UPAS from the elements while making it easy to connect an external power source (battery, line, or solar)! This enclosure can house any UPAS model: v2.0, v2.1, or v2.1 PLUS.

The UPAS Outdoor Enclosure includes a weatherproof external power port as well as the hardware you need to secure your UPAS and an external battery pack inside. The enclosure also comes with a mounting bracket that can be used to mount a solar panel or sun shade above the enclosure.

Let us know how you want to power your UPAS (e.g., external battery pack, wall power adapter, solar panel) to receive the appropriate cables along with your enclosure. Please also let us know if you want your enclosure configured with a cooling fan.

The UPAS Outdoor Enclosure is compatible with V25, V50, and V75 batteries as well as P105, P110, and P120 solar panels from Voltaic Systems (all sold separately by Voltaic Systems). Use of the P120 solar panel requires a Voltaic Systems BK108 Solar Panel Bracket.

SPECIFICATIONS

Exterior size	220 mm × 108 mm × 81 mm (without mounting bracket)
Weight	770 g (without UPAS, external battery, or solar panel)
Power options	Line, battery, or solar
External battery options	Voltaic Systems V25 (23 W-h), V50 (47 W-h), or V75 (71 W-h); sold separately
Solar panel options	Voltaic Systems P105 (5 W), P110 (10 W), or P120 (20 W); sold separately



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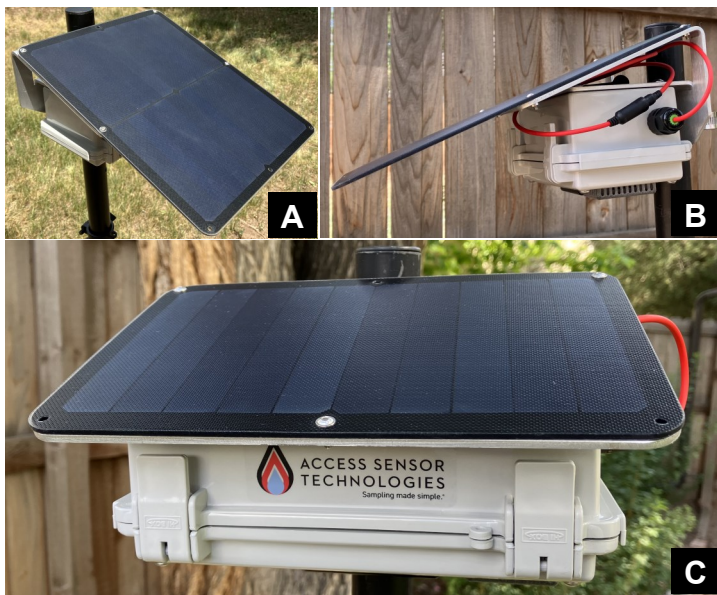
Revision 1.3, July 2024

Powering the UPAS for outdoor sampling

Do you have line power available at your sampling site? If so, the outdoor enclosure features a weatherproof port that allows the UPAS to be plugged into a standard 110 V electrical outlet via a 5 V DC power adapter. In this configuration, the UPAS still runs off the internal battery, but the battery will charge as needed to keep the UPAS powered continuously.

No line power? No problem! UPAS battery life can be extended by connecting an always-on external battery pack to the micro-USB port. The outdoor enclosure is designed to accommodate a Voltaic Systems V25 (23 W-h), V50 (47 W-h), or V75 (71 W-h) battery (sold separately).

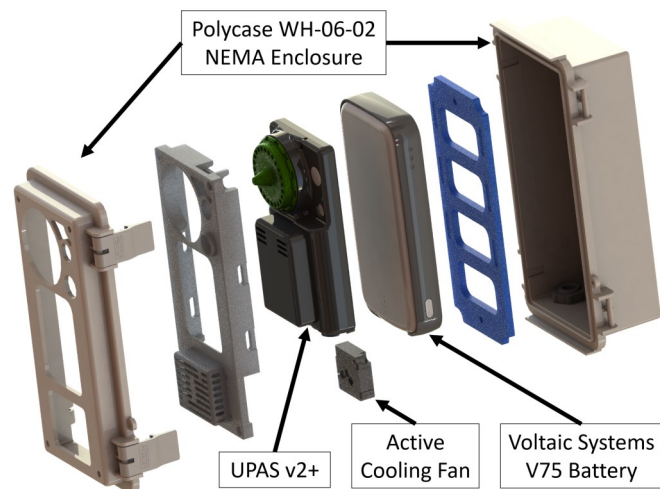
Got sun? The outdoor enclosure mounting bracket can accommodate a Voltaic Systems P105 (5 W), P110 (10 W), or P120 (20 W) solar panel (sold separately). The P120 panel also requires a Voltaic Systems BK108 Solar Panel Bracket. Plug the panel into the external battery, via the weatherproof charging port on the side of the outdoor enclosure, to run your UPAS on solar power.



Outdoor Enclosure with: A, B) Voltaic Systems P110 10-Watt solar panel. C) P105 5-Watt solar panel.



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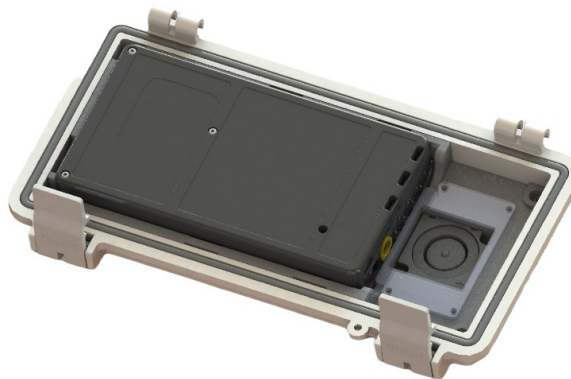


Exploded view of the outdoor enclosure showing UPAS v2+, cooling fan, and Voltaic Systems V75 battery

Sampling in hot weather

The UPAS can always be powered by its standard 24 W-h internal battery pack. If you plan to sample in an environment where temperatures will exceed 35 °C, ask us about replacing the standard UPAS internal battery with a 25 W-h wide temperature-range pack. The standard battery pack can charge at temperatures ranging from 0 to 45 °C. The wide temperature-range pack can charge at temperatures ranging from 0 to 60 °C.

The UPAS will circulate air through the outdoor enclosure at a flow rate of 1 or 2 L min⁻¹, depending on the sample flow rate. If you need additional convective cooling, we can install a secondary exhaust fan inside the enclosure. This fan will run off the same power source as the UPAS (line or battery).



The inside of the outdoor enclosure lid with a UPAS and a cooling fan installed.

Access Sensor Technologies

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