



80 AMP HOUR 18X16X10 SOLAR SOLUTION WITH 90 W SOLAR PANEL



The AccelTex Solutions Solar Solutions are a complete remote power solution designed for off-grid operation to power various electronics. These solar solutions are fully configured and provide multiple output power options, such as PoE and DC power.

Part Number: **ATS-SOLR-80AH-90W-181610P**



FEATURES

- Fully integrated unit includes charge controller, batteries, enclosure and solar panel(s)
- Multiple output power options, including PoE (802.3af & 802.3at) & 12V DC
- Multiple PoE outputs with an additional PoE Switch for powering multiple PoE devices, such as security cameras
- Batteries are continuously charged via the solar panels
- Charge controller protects against over-charging and over discharging of the batteries
- Enclosure ships with a Wall mount (Pole Mount is available as an accessory item) and Solar panel ships with a pole mount
- Outdoor-Rated



BENEFITS

- Self-Contained Unit for easy install
- Provides isolated and uninterrupted power
- Space for mounting electronics (on some models)



ADDITIONAL COMPATIBLE ACCESSORY ITEMS

- PoE Switch (ATS-POES-12VDC-56VDC)
- Enclosure Pole Mount (ATS-PMK-16)



APPLICATIONS

- Security Cameras
- Outdoor Wi-Fi
- Parking Lots and Garages
- Cellular Backhaul
- Remote Monitoring and Control
- Remote Sites
- Temporary Locations
- Disaster Relief

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MECHANICAL SPECIFICATIONS

Enclosure Weight: 79.2 lbs (35.92 kg)
Solar Panel Weight: 15.7 lbs (7.12 kg)
Total System Weight: 94.9 lbs (43.05 kg)
Enclosure Dimensions: 18" H x 16" W x 10" D (457.2 mm H x 406.4 mm W x 254 mm D)
Solar Panel Dimensions: 46.25" L x 21.06" H x 1.37" D (1,175 mm L x 535 mm H x 35 mm D)
Solar Panel Pole Mount Diameter: Up to 2" Diameter Pole (50.8 mm)
Color: Light Grey
Material: Polycarbonate
Door Type: Solid
Lock Type: Latch with Padlockable Hasp
Enclosure Installation: Mounting Feet



ELECTRICAL SPECIFICATIONS

System Output Power Options: 1 Output for 802.3af or 802.3at and 1 Output for 12V DC (Supports up to 10 Amps)
Solar Panel Input: 90W
Solar Panel Optimum Operating Current: 4.5 Amps
Charge Controller Max Input: 10 Amps



ENVIRONMENTAL SPECIFICATIONS

Installation Environment: Outdoor (NEMA 6P, 4X, 4, 3R, 122; IP68)
Operating Temperature: -4 to 122°F (-20 to 50°C)



SYSTEM COMPONENTS

- (2) 12V 40 Ah AGM Sealed Lead Acid Batteries
- 18x16x10 Polycarbonate Enclosure with Solid Door, Latch Locks, Pad Lockable Hasp and Wall Mount
- Battery Tray
- 90 W Monocrystalline Solar Panel with Pole Mount
- Charge Controller (802.3af/at PoE and 12V DC, 10 Amp Output Power)
- (1) 15 cm and (1) 30 cm DIN Rail, (3) DIN Rail Mounts, (2) Universal DIN Rail Mounting Plates for equipment that is not DIN Rail Mount Ready and fasteners for equipment mounting
- (6) Battery Wiring Harnesses; (2) to controller and (4) to link batteries
- (1) PG16 and (1) PG7 Cord Grip
- (1) 85 cm Battery Safety Strap
- (1) Cable Management Supplies Kit (includes Zip Ties and Zip Tie Mounting Pads)

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RECOMMENDED SYTSTEM USAGE SCENARIOS

Watts Consumed	Total Hours of Backup**	Solar Solution Sizing*			
		12 Hour Run Time		24 Hour Run Time	
		3 Hours Peak Sunlight	6 Hours Peak Sunlight	3 Hours Peak Sunlight	6 Hours Peak Sunlight
2	240	✓	✓	✓	✓
4	120	✓	✓	✓	✓
6	80	✓	✓	✓	✓
8	60	✓	✓	✗	✓
10	48	✓	✓	✗	✓
12	40	✓	✓	✗	✓
14	34	✗	✓	✗	✗
16	30	✗	✓	✗	✗
18	27	✗	✓	✗	✗
20	24	✗	✓	✗	✗
22	22	✗	✓	✗	✗
24	20	✗	✓	✗	✗
26	18	✗	✓	✗	✗
28	17	✗	✗	✗	✗

*For all scenarios, batteries have been de-rated 50% for cold weather and recovery for non-sunny days.

**Assumptions: Batteries are fully charged and panel does not provide power (running off stored battery power only). Batteries have been derated 50% for cold weather.