ATLAS POWER
Draw on our energy

PRODUCT SPECIFICATION DOCUMENT

# AP100 Turbo

Compact, containerised battery system
for mobile or mid-scale applications


## Small size. Big performance.

The AP 100 Turbo delivers clean, silent power in a footprint smaller than traditional gensets.

Designed for construction, microgrids and remote applications, it provides 300 kVA of continuous output and up to 400 kVA of peak power – all without fuel, fumes or noise. Lightweight and rugged, it's ideal for sites where space is tight but performance still matters.

## Applications

- Construction (lighting, small cranes, tools, site sheds)
- Telecom and mobile operations
- Off-grid and hybrid microgrids
- Emergency backup and supplementary power

## Performance Highlights

- 300 kVA continuous capacity with 400 kVA peak power (10s)
- Recharges rapidly via solar, generator or grid
- Up to 96% system round trip efficiency
- Lightweight, containerised form factor
- Advanced BMS and thermal control
- Hybrid compatible with genset or renewables

## Technical Specifications

| | |
|---|---|
| **Storage** | |
| Usable capacity (90% DoD) | 91.8 kWh |
| Cell chemistry | $LiFePO_4$ |
| Battery management system | Automotive-grade BMS |
| **Power** | |
| Nominal power output | 300 kVA |
| Peak power (10s) | 400 kVA |
| Round trip efficiency | Up to 96% |
| Discharge time | ~55 min @ full load |
| Recharge time | Variable depending on input (up to 62 kVA) |
| **Control & Monitoring** | |
| Real-time telemetry via Atlas Management System | |
| Remote diagnostics (voltage, current, temp, SOC) | |
| Supports generator/grid/solar inputs | |
| **Environmental** | |
| Cooling system: | Intergrated liquid cooling |
| Operating temperature range: | -20°C to +50°C |
| **Mechanical** | |
| Compact, containerised format | |
| Durable steel housing | |
| Forklift pockets and lifting points for easy relocation | |

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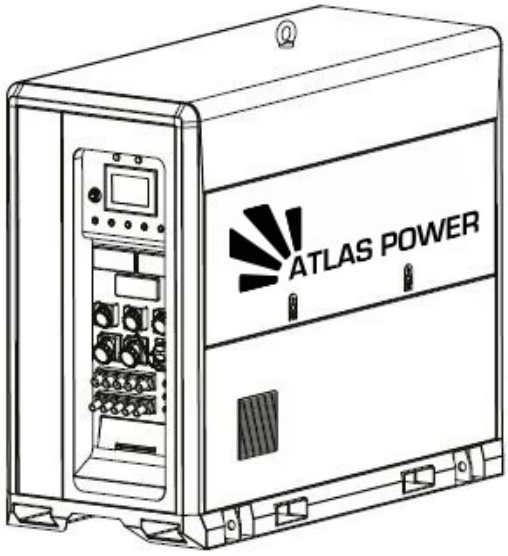


## Technical Specifications

| Environmental | |
|---|---|
| Protection class | IP54 |
| Corrosion protection | C3 (C5M) |
| Operating temperature | -20 to +50 °C |
| Humidity | 0–95% (no condensation) |
| Maximum operating altitude | 3000 m |
| Sound power level | <50 dB(A)@1m |
| **Mechanical** | |
| Dimensions (L x W x H) | 2300*1150*2200mm |
| Weight | 2700 kg |

| Scope Of Supply | Optionals |
|---|---|
| **Canopy**<br>High strength structure, High IP protection container.<br><br>**Security**<br>Internal locker for batteries, Anti-theft hinges and door lockers, Earth pin without grounding rod.<br><br>**Transport Efficiency**<br>Lifting eye, Skid frame with forklift pockets, Anti-theft features. | Custom colours, Custom sockets distribution (input and output), Extended galvanized baseframe, Grid synchronisation panel, Integrated PV inverter, EV charge point, Trailer. |

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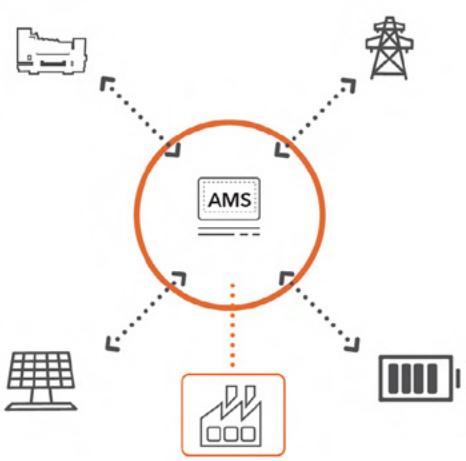


| Control | |
|---|---|
| **Control Panel** | Industrial-grade rugged 10'' HMI with configurable presets, data visualisation and logs |
| **Protection** | Overload, Overhead, Short Circuit, Earth Fault |
| **Temperature control** | Active forced air cooling |
| **Remote generator start** | Dry contact relay / MODBUS |
| **Remote connectivity** | Data-efficient M2M communications via mobile and user notifications to internet connected devices |

## Atlas Management System

With the Atlas Management System, you can effortlessly check the performance of your systems in real-time, identify and troubleshoot any issues, and even remotely commission new units. The system also offers remote access to the HMI, enabling you to control and adjust settings from anywhere. Additionally, you can assign contracts to specific systems, ensuring they are operating according to your needs, and track their exact location using integrated GPS technology.

**Multiple Working Mode**
Provides multiple operating modes selection for different working scenarios. The full functions AMS supports Island mode, Hybrid mode, Microgrid mode etc.

**Integration Capability**
AMS can automatically integrate various energy sources of generator, battery storage, PV, mains and provide seamless power switch.

**Scalability**
The power and capacity can be expanded by parellelling with multiple EnergyPack BESS and generators.

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