

PRODUCT SPECIFICATION DOCUMENT

AP300

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



Small size. Big performance.

The AP 300 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

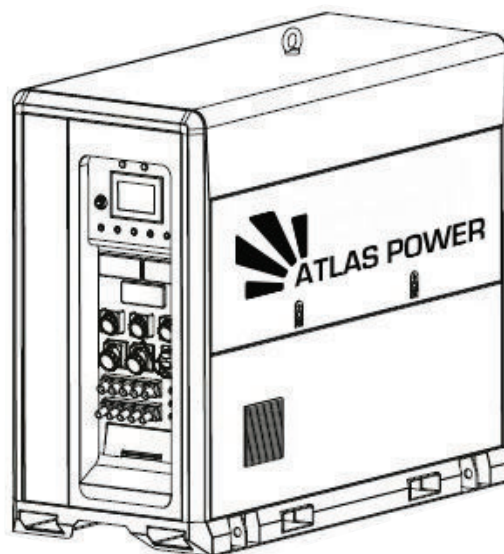
Canopy
High strength structure,
High IP protection
container.

Security
Internal locker for batteries,
Anti-theft hinges and door
lockers, Earth pin without
grounding rod.

Transport Efficiency
Lifting eye,
Skid frame with forklift
pockets, Anti-theft features.

Optionals

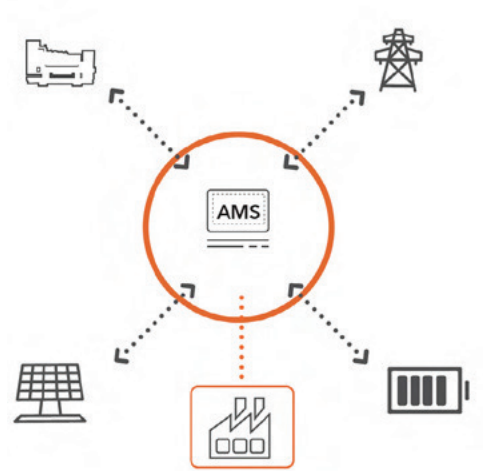
Custom colours,
Custom sockets
distribution
(input and
output),
Extended galvanized
baseframe, Grid
synchronisation panel,
Integrated PV inverter,
EV charge point,
Trailer.



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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 parallelling with multiple EnergyPack BESS and generators.