

POWER HUB GRID 10'

STATIONARY STORAGE - 10FT CONTAINER - 500 kWh



500 KWH, ONE CONTAINER, ZERO COMPROMISE.

Building on XAP's expertise in energy storage, power electronics and battery management, the XAP POWER HUB GRID 10 is a containerized energy storage solution designed for large-scale industrial and infrastructure applications.

Integrated into a transportable 10-foot container, the POWER HUB GRID 10 is engineered for rapid deployment and operational flexibility. Its modular architecture is based on interchangeable battery modules managed by XAP's proprietary Battery Management System, ensuring high levels of safety, maintainability and long-term performance. The solution can operate both on-grid and off-grid while seamlessly integrating renewable energy sources such as photovoltaic installations.

More than a storage system, the POWER HUB GRID 10 is a complete energy platform capable of supporting industrial facilities, remote sites, charging infrastructures, temporary operations and microgrids. Designed, assembled and qualified in France, it reflects XAP's commitment to delivering scalable, intelligent and high-performance energy solutions that accelerate electrification while reducing dependence on conventional fossil-fuel power generation.

STORE — STABILIZE — DELIVER.

HALF A MEGAWATT HOUR IN TEN FEET.

ISO 10FT FORMAT:

Standard intermodal container compatible with road, rail and maritime transportation. Deployable in less than 24 hours.

500 KWH MODULARITY:

Ten independent 50 kWh battery packs allow modular maintenance and energy scaling without full-system downtime.

DUAL BMS REDUNDANCY:

Three proprietary XAP four-channel BMUs operate in master-master mode, ensuring continuous supervision and high availability.

GRID SUPPORT MODES:

Supports peak shaving, frequency regulation, black-start operations and autonomous microgrid islanding.

SECOND-LIFE QUALIFIED:

Automotive-grade NMC batteries individually characterized and fully traceable throughout their operational lifecycle.

INTEGRATED SAFETY:

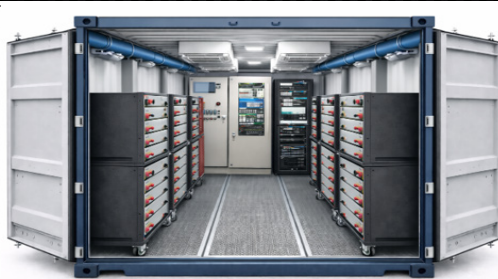
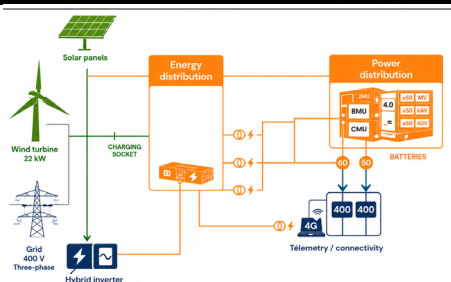
BattSafe gas detection, fire protection options, thermal monitoring and compliance with major international BESS standards.

COMPACT FOOTPRINT. INDUSTRIAL POWER:

Only 7.4 m² of ground occupancy.

500 kWh of intelligent energy storage.

Built for modern grids, premium events and resilient infrastructure.



► BATTERY - BMS/CMU - DC/DC - CASING: STATIONARY STORAGE - 10FT CONTAINER - 500 KWH

TECHNICAL SPECIFICATIONS

Stored Energy	500 kWh (10 × 50 kWh Packs)
DC Bus Voltage	400 V Nominal
AC Converters	10 × 30 kW Units
Continuous Output Power	up to 300 kW (AC)
AC Voltage	400 V Three-Phase, 50 Hz
BMS	2 × XAP Proprietary BMU – 4 Channels
Cooling	Forced-Air Cooling with Redundant Fans
Communication	CAN, CAN-FD, Modbus TCP, Ethernet, Wireless 4G
Reversibility	Full Bidirectional Charge / Discharge Capability
Operating Modes	On-Grid, Off-Grid, Microgrid, Peak Shaving
Telemetry	20 Hz Multi-Pack Synchronized Monitoring

MECHANICS

Container Type	ISO 10 ft Standard
Dimensions (L × W × H)	2,991 × 2,438 × 2,591 mm
Total Mass	Approximately 4,500 kg
Lifting	ISO Corner Castings, Crane Deployable
Enclosure Rating	IP55 Outdoor
Surface Treatment	Marine-Grade Paint System
HVAC	Integrated Climate Control (-20°C to +50°C Ambient)
Access	Double-Leaf Rear Doors with Ventilation Grilles

SAFETY

Fire Protection	Aerosol or FM-200 Extinguishing System (Optional)
Gas Detection	H ₂ , CO ₂ and VOC Monitoring via BattSafe Electronic Board
Emergency Stop	External Lockable Emergency Shutdown
BESS Compliance	IEC 62933
Battery Compliance	IEC 62619
Transport Compliance	UN 38.3
Grid Compliance	EN 50549 / UTE C15-712-3
EMC Compliance	EN 61000-6-2 / EN 61000-6-4
Certification	CE Marking

TYPICAL APPLICATIONS

Premium Sporting Events
Concerts and Festivals
Institutional Facilities
Commercial Buildings
Industrial Self-Consumption
Peak Shaving Operations
Temporary Grid Reinforcement
Microgrid Demonstrators
Renewable Energy Buffer Storage

REFERENCES

PFXXXX	XAP POWER HUB GRID 10' - 500 kWh
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