

POWER HUB 100

STATIONARY STORAGE - MOBILE UNIT - 100 kWh



INDUSTRIAL STORAGE, ENGINEERED IN FRANCE.

Building on more than 25 years of experience in motorsport and advanced electrification programs, XAP brings proven expertise in battery systems, power electronics and embedded energy management to the stationary storage market. This unique background enables the development of high-performance energy solutions engineered to meet the reliability and safety requirements of demanding industrial environments.

Unlike conventional integrators, XAP designs and controls the complete energy architecture, from battery qualification and Battery Management Systems (BMS) to power electronics, embedded software and system supervision. This end-to-end mastery ensures optimal performance, full traceability and long-term maintainability while delivering intelligent and scalable energy storage solutions.

Designed, assembled and qualified in France, XAP energy storage systems combine industrial robustness, advanced monitoring capabilities and seamless integration with modern energy ecosystems.

By maximizing energy independence, supporting renewable integration and ensuring operational continuity, XAP helps industrial users transform energy storage into a strategic asset for the future.

AUTONOMY — RESILIENCE — PERFORMANCE.

INTELLIGENT STORAGE, CONTINUOUS POWER.

DUAL-PACK ARCHITECTURE:

Two synchronized 50 kWh battery packs managed by a single proprietary four-channel BMU ensure seamless operation and optimized energy balancing.

HVE FAST CHARGING:

Up to 50 kW+ continuous output capability, ideal for electric vehicle charging, agricultural fleets and industrial electrification projects.

PV-READY:

Native MPPT photovoltaic inputs allow direct integration with solar installations while maximizing self-consumption rates.

BIDIRECTIONAL INVERTER:

Operates either as a grid-following energy storage system or as a standalone power source with seamless transition capability..

SECOND-LIFE READY:

Qualified automotive battery modules significantly reduce acquisition costs while maintaining industrial reliability and long operational lifetime.

PROPRIETARY BMS:

XAP-developed battery management system provides complete ownership of operational data and eliminates dependence on third-party black-box solutions..

INDUSTRIAL SUPERVISION:

Real-time CAN, CAN-FD and Ethernet monitoring support predictive maintenance, remote diagnostics and continuous system optimization.

STORE BY DAY. RUN BY NIGHT:

Silent operation. Zero local emissions. Intelligent energy management.



► BATTERY - BMS/CMU - DC/DC - CASING: **POWER HUB 100 - STATIONARY STORAGE**

TECHNICAL SPECIFICATIONS

Stored Energy	100 kWh (2 × 50 kWh Modular Packs)
DC bus Voltage	400 V Nominal
Output Power (continuous)	50 kW
Output Power (Peak/HVE Charging)	50 kW+ (Configurable up to 150 kW Transient)
Modules	36 Modules – 6S2P Configuration
BMS	XAP Proprietary BMU – 4 Channels
AC Interfaces	Three-Phase 400 V / Single-Phase 230 V
PV Interface	MPPT Compatible, Up to 8 Strings
Reversibility	Bidirectional Inverter, On-Grid / Off-Grid Modes
Cooling	Active Forced-Air Cooling with Modular Fans
Telemetry	20 Hz CAN / CAN-FD Broadcast
Operating Temperature	-10°C to +50°C

MECHANICS

Mass	Approximately 650 kg
Dimensions (L × W × H)	Approximately 850 × 600 × 2100 mm
Form Factor	Floor-Standing Industrial Cabinet
Enclosure	IP54 – Indoor / Sheltered Installation
Mounting	Fixed Installation with Anchor Bolts

SAFETY

Battery Monitoring	Cell-Level Voltage, Temperature and Current Monitoring
Battery Compliance	IEC 62619
Energy Storage Compliance	IEC 62933
Grid Interconnection	EN 50549
Thermal Monitoring	Integrated BattSafe Compatible Architecture
Electrical Protection	Differential AC Protection, DC Fuses, Sectional Disconnects
EMC Compliance	EN 61000-6-2 / EN 61000-6-4

TYPICAL APPLICATIONS

Industrial Workshops
Manufacturing Facilities
Agricultural Operations
Commercial Buildings
High-Power EV Charging
Solar Self-Consumption Systems
Energy Resilience Projects
Remote Industrial Sites
Microgrids and Hybrid Energy Systems

REFERENCES

PF1023	XAP POWER HUB INDUSTRY - 100kWh
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