



► CHARGING SYSTEMS:

NOMAD CHARGING SOLUTIONS

NOMAD B20



NOMAD B20 – AUTONOMOUS MOBILE CHARGING STATION

XAP brings its expertise in embedded systems, power electronics, and field-proven engineering to the challenge of mobile energy deployment.

The Nomad Charging Solution B20 was originally developed for extreme-use environments such as long-distance rally raids, where reliability, autonomy, and robustness are non-negotiable.

Designed and validated in real-world conditions, this system reflects XAP's core DNA:

- rigorous engineering approach
- pragmatic innovation
- strong focus on operational reliability

From early development phases to full-scale deployment, the project has evolved into a mature and operational solution, capable of delivering energy where infrastructure simply does not exist.

ENERGY ANYWHERE, ANYTIME FOR ALL EVENTS

FULLY AUTONOMOUS MOBILE CHARGING STATION:

Deploy power instantly, even in remote or constrained environments.

HIGH POWER, HIGH THROUGHPUT:

Designed for large-scale operations and demanding events. Up to 500 kW total available power.

SUSTAINABLE AND FUTURE-ORIENTED:

A realistic bridge between energy constraints and environmental ambitions.

FIELD-PROVEN ROBUSTNESS:

Engineered for extreme conditions (heat, dust, off-road).

MINIMAL LOGISTICS, MAXIMUM EFFICIENCY:

Fully integrated system - single operator required.

LARGE CHARGING CAPACITY:

20 vehicles charging simultaneously - up to 120 vehicles charged overnight.

LOW DISTURBANCES:

Sound intensity at 1 metre distance ≤ 83 DB (A)

Sound intensity at 7 metre distance ≤ 7 DB (A)

MULTIPLE USE CASES:

- Motorsport and Rally race/events
- Cultural events requiring temporary installations
- Electric mobility and sportive operations
- Infrastructure backup and transition

SIMPLICITY, SECURITY, RELIABILITY.

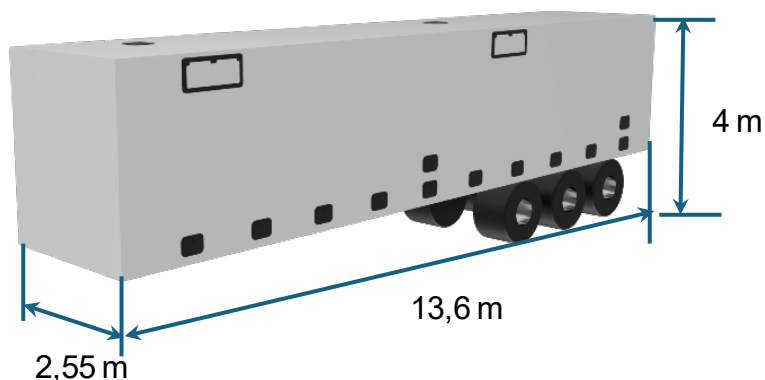
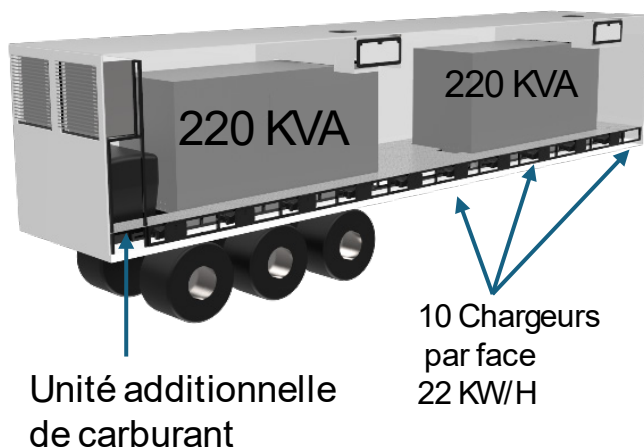


MORE INFORMATION ON
[HTTPS://RUNFUN.XAP.FR](https://runfun.xap.fr)



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DIMENSIONS



POWER SPECIFICATIONS

Power generation	2 integrated generator units
Generator power	Up to 250 kVa per unit
Total available power	Up to 500 kW
Charging points	Up to 20 simultaneous outputs 22 kW AC per output
Charging type	AC charging (fast or standard depending on vehicle)
Total charging capacity	Up to 120 vehicles per night
Electrical outputs	4 x 380 V / 32 A 4 x 220 V / 10 A
Load distribution	Independent and configurable per charging point

OPERATING CONDITIONS

Operating temperature	-30°C to +50°C
Storage temperature	-40°C to +80°C
Relative humidity	5% to 95%
Environmental resistance	Designed for dust, sand, and harsh environments
Operating altitude	All latitudes and altitudes supported (except extreme conditions such as sandstorms)
Acoustic performance	≤ 83 dB(A) at 1 meter ≤ 73 dB(A) at 7 meters

FUEL CAPACITY & AUTONOMY

Fuel type	B100 biofuel EN14214 compliant
Fuel architecture	Multi-tank system (main & auxiliary tanks)
Total fuel capacity	Up to ~2300 liters onboard
Consumption at 75% load	Approx. 42.7 L/h
Standard autonomy	~32 hours continuous operation
Extended autonomy	Up to ~40 hours with additional tank
Energy efficiency	Optimized for continuous high-load operation

