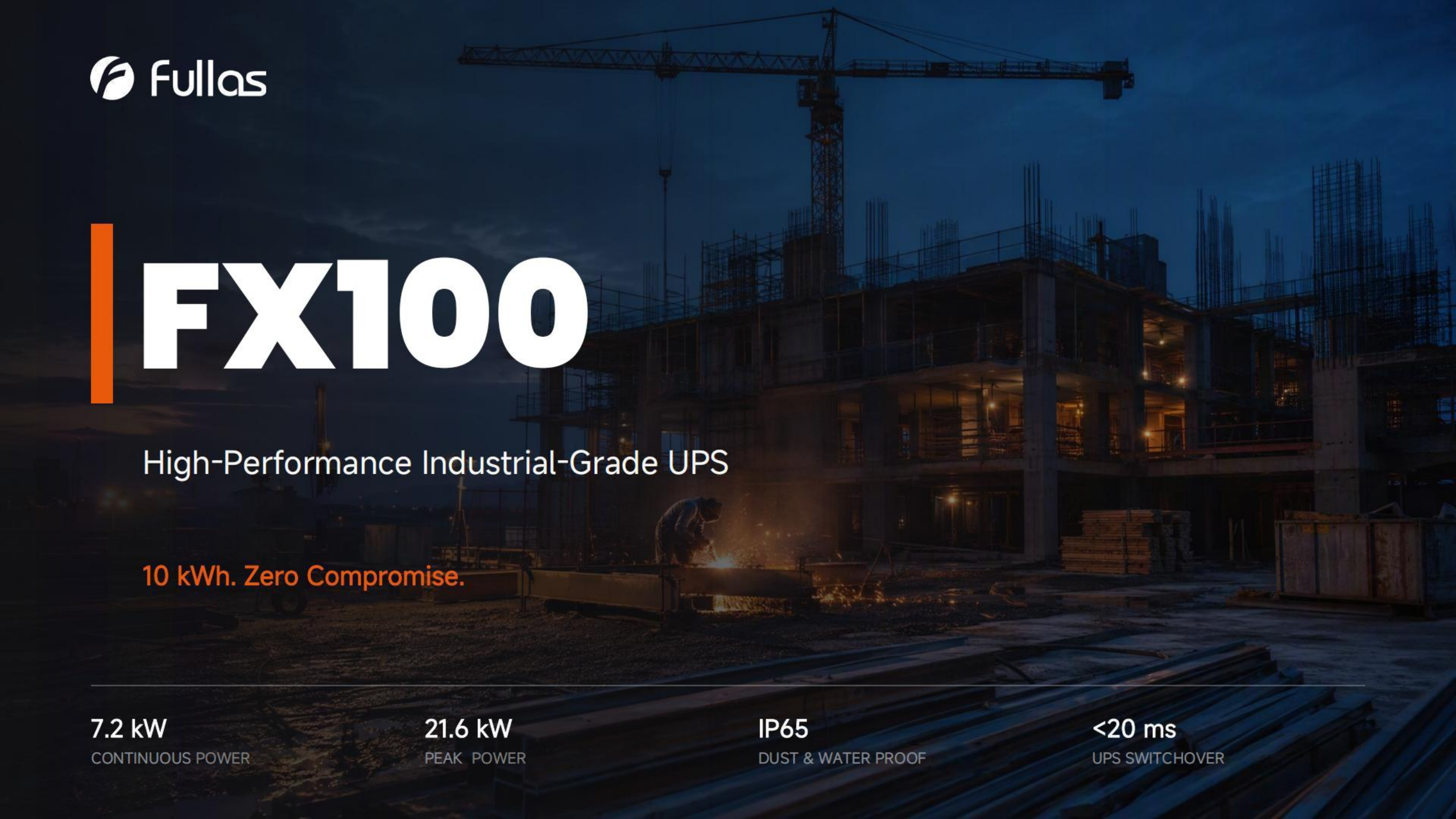


Fullas

FX100

High-Performance Industrial-Grade UPS

10 kWh. Zero Compromise.

7.2 kW	21.6 kW	IP65	<20 ms
CONTINUOUS POWER	PEAK POWER	DUST & WATER PROOF	UPS SWITCHOVER

THE PROBLEM

Power problems cost real money.

01

Noise & Emissions

Diesel units roar at ~75 dB and breathe CO + NOx on every site.

02

Underpowered

Consumer power stations stall on welders, compressors and cutters.

03

Downtime Loss

One outage can stop a production line, a site — or a surgery.

04

Harsh Environments

Dust, salt spray, humidity and −15 °C kill ordinary batteries.

> The market needed industrial power — without industrial pain points.

THE PRODUCT

One unit. Three roles.

UPS Backup

Millisecond switchover keeps critical loads online.

Tool Power

7.2 kW continuous power for heavy job-site tools. 7.2kW

Emergency Supply

10 kWh on wheels, ready when the grid fails. 10kWh



SIX CORE VALUES

Six reasons. One power station.

01

Unstoppable Power

Surging Power · 7.2 kW / 21.6 kW

02

Millisecond Switchover

UPS <20 ms

03

All-Weather Protection

IP65

04

Cold-Weather Ready

Reliable in extreme cold:
full-power discharge at -15℃

05

10 kWh LFP

High capacity-a single full charge powers a full day of work

06

Whisper Quiet

Zero-noise · Fanless <30 dB

7.2 kW

CONTINUOUS OUTPUT POWER

21.6 kW

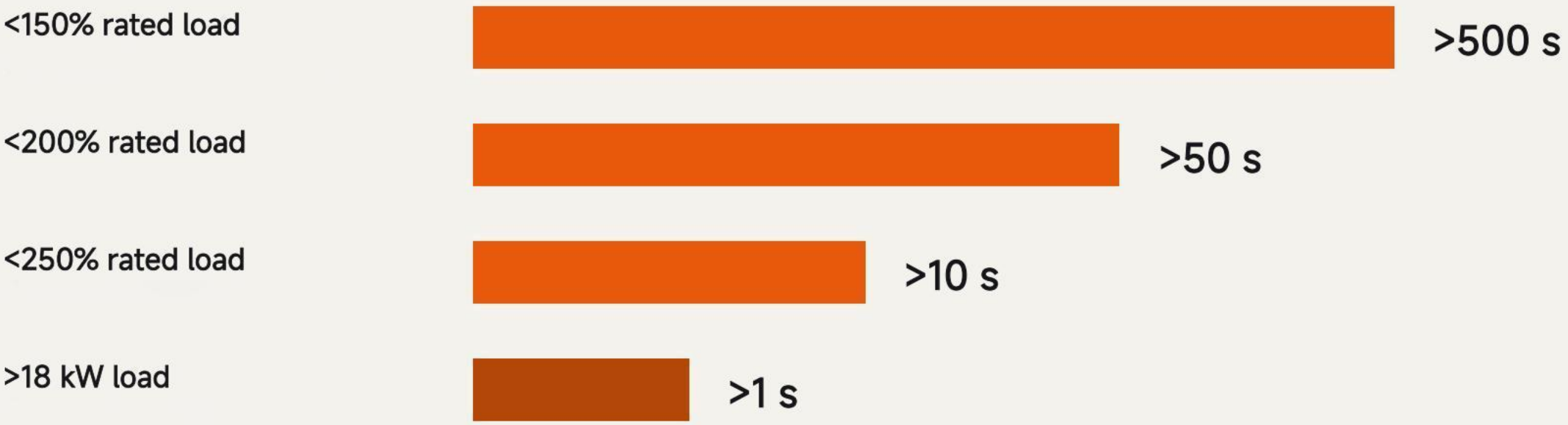
PEAK POWER

Runs welders, compressors and cutters — not just chargers.



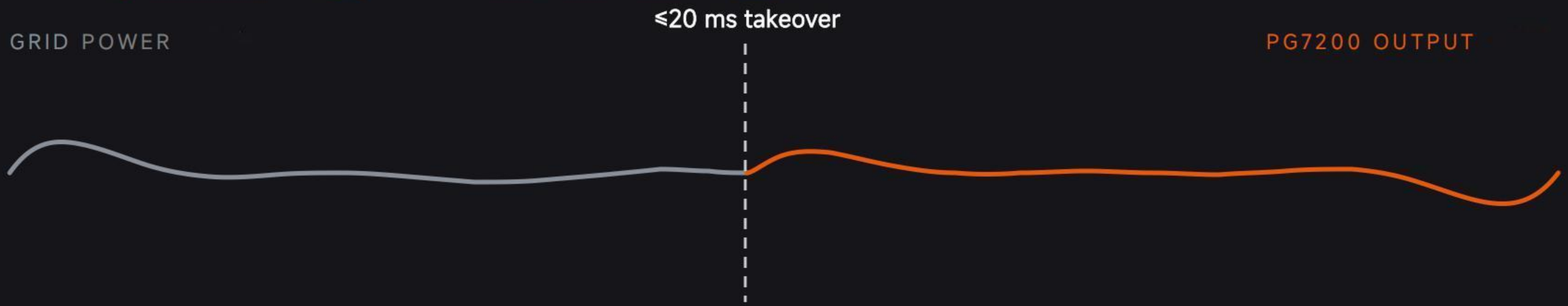


Surge capacity that holds.



Motor startup surges? **It doesn't flinch.** · Based on factory overload test data, 0–100% load steps.

<20 ms



Critical loads never go offline.

IP65

DUST TIGHT · WATER JET PROOF

Dust, rain, salt spray — it keeps working.

Water Jets

Dust Tight

Salt Spray

2,000 m Altitude

Operating envelope: −15 °C ~ 55 °C discharge, 95% RH.

03 — ALL-WEATHER PROTECTION

Built for the worst conditions on Earth.

−15 °C Discharge

55 °C Operation

95% RH Humidity

PD3 Outdoor Rated

V0 Flame Retardant

Class I Protection

Salt-spray resistant enclosure · 2,000 m operating altitude · dielectric withstand & creepage-distance tested

04 — COLD-WEATHER READY

Full power at −15 °C.



A built-in intelligent heating system does what others can't — **no external auxiliary heater, no capacity compromise.**

10.24 kWh

$LiFePO_4$ · 3.2V × 20Ah × 20S × 8P

One charge. A full workday.

$LiFePO_4$ — the safest battery chemistry

3,000

Charge Cycles

Long service life cuts replacement cost across years of daily use.

>95%

Energy Efficiency

Rated output power at 7,200 W, 25 °C — more usable energy per charge.

$LiFePO_4$

Safest Chemistry

Intrinsic thermal stability, with cell heating for cold climates.

Cycle life: 3,000 cycles to 80% residual capacity (0.5C / 0.5C, 25 °C) · Efficiency measured from full charge to 0% SOC at 7,200 W, 25 °C.

06 — WHISPER QUIET

0 noise. Literally.



~75 dB

Diesel generator



<30 dB

PG7200 · quiet mode

Hospitals, labs and offices won't notice it's there.

06 — WHISPER QUIET



Home



Laboratory



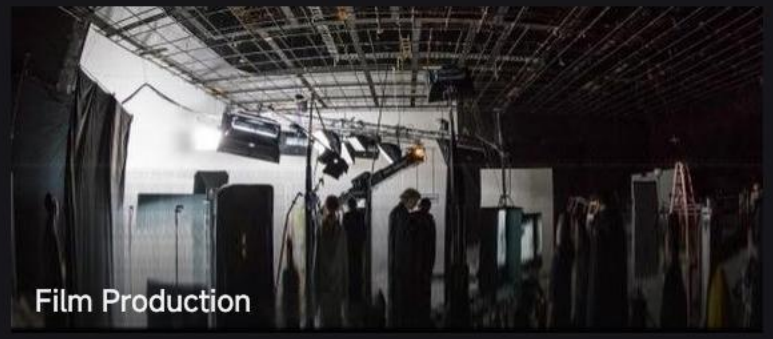
Night Work

APPLICATIONS

Wherever work happens.

FX100



















TOTAL COST OF OWNERSHIP — EUROPE

The math that closes deals.

Item	Gasoline Generator (Honda EU70is, 5.5 kW)	FX100 (7.2 kW)
Energy	5,370 L × €1.82/L = €9,773	10,000 kWh × €0.28 = €2,800
Maintenance	9 services × €60/h = €540	Maintenance-free €0
Consumables	Oil & parts ≈ €70	€0
Equipment	≈ €4,650	€4,499
Total	**≈ €15,033**	€7,299

TOTAL SAVINGS

€7,700+

Equipment at par. Operating at half.

1. Gasoline price: EU average, May 2026 (€1.82/L). Electricity: €0.28/kWh. 2. Fuel use based on EU70 is user manual: 19.2 L tank supports 6.5 h at rated 5.5 kW → 0.537 L/kWh → 5,370 L per 10,000 kWh. 3. Maintenance assumed every 200 operating hours at €60/h. 4. PG7200 terminal price €4,499 excl. VAT (channel estimate, to be confirmed).

VS. TRADITIONAL INDUSTRIAL UPS

UPS-grade reliability. Generator-grade power. Portable package.

DIMENSION	TRADITIONAL UPS	FX100
Output power	2–3 kW	7.2 kW continuous / 21.6 kW peak power
Capacity	2–5 kWh	10.24 kWh LFP
Protection Rate	IP21, indoor only	IP65, indoor & outdoor
Recharge time	4–8 h	< 2.5 h
Mobility	Rack-fixed, fixed wiring	90 kg, wheeled & towable

One PG7200 replaces the "UPS + generator" pair — one unit to buy, zero fuel, zero noise, zero maintenance.

GLOBAL REACH · CERTIFIED TRUST

Global reach. Certified trust.

Europe

Asia-Pacific

Americas & Middle East

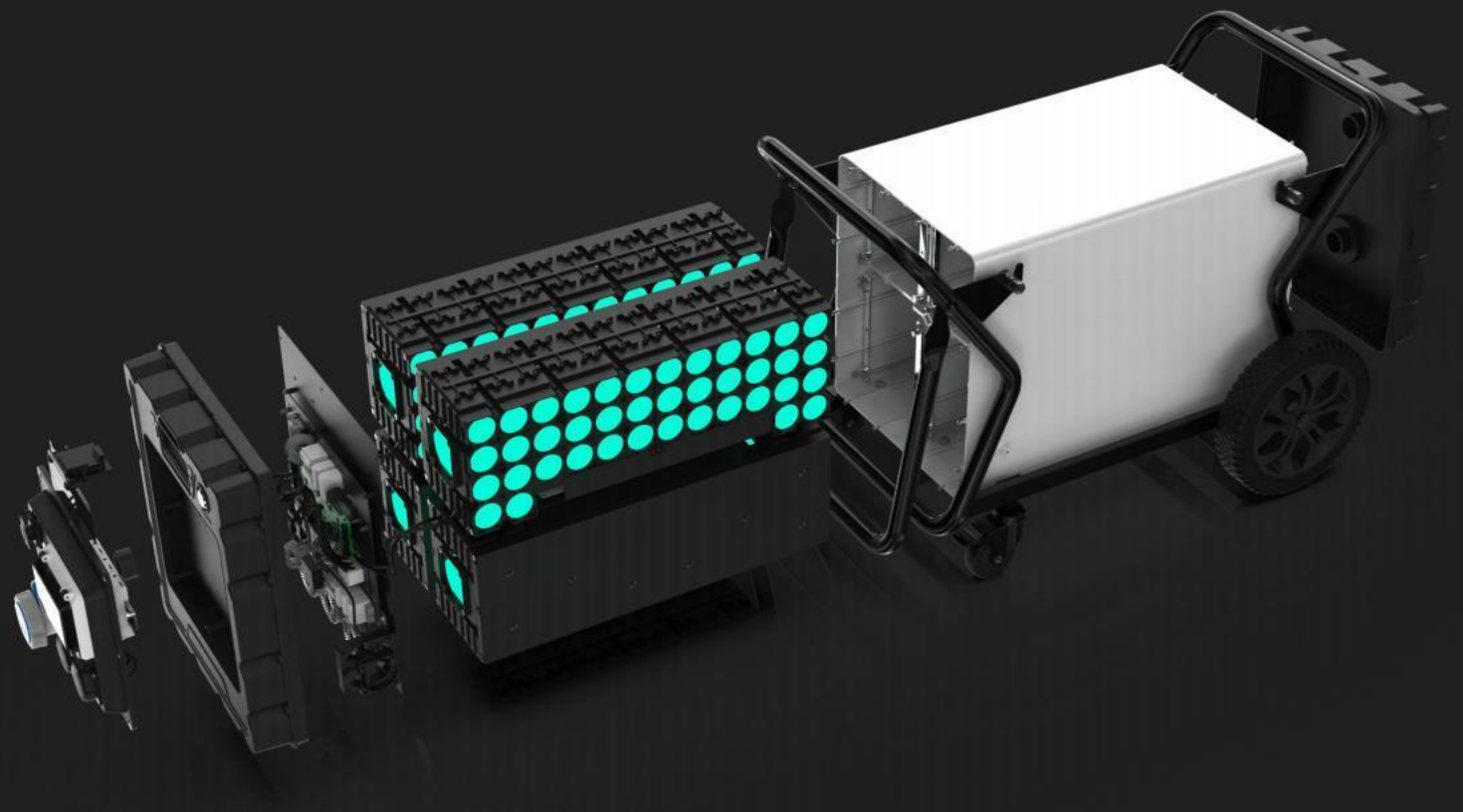
CERTIFICATIONS

CE	CB	EMC
UN38.3	RoHS	REACH

Plus SDSs documentation for global logistics.

DESIGN HIGHLIGHTS

Engineered inside out.



- Self-developed AC-BMS
- Pure Sine Wave ·
- Natural Convection Cooling
- V0 Flame-Retardant Enclosure

COMPETITIVE LANDSCAPE · HEAD-TO-HEAD

Same battery class. Different league.

X100 vs Voltstack 8000 / PESS / ESS D 11/8 / Batt Pack Jupiter











DIMENSION	FX100	Voltstack 8000	PESS (IRON·E)	ESS D 11/8	Batt Pack Jupiter
Output Power	**7.2 / 21.6 kW** cont. / peak 150% overload >500 s	8 / 16 kW	8 / 19 kW peak 0.1 s only	11 / 13 kW	7 / 12 kW peak 1 s only
Battery & Cycles	**10.24 kWh LFP** 4,000 cycles to 80%	10 kWh Li-ion cycles n/s	10 kWh 2,500 cycles	8 kWh NMC ≈1,000 cycles	7.2 kWh LFP >3,000 cycles
AC Recharge	**<3.5 h** 3.6 kW grid input	n/s input 2.88 kW max	<4 h 16 A outlet	2 h / 5 h 400 V / 230 V	n/s grid input 1.11 kW
Protection	**IP65** dust-tight · jet-proof salt-spray proof	IP54	IP54	IP65	n/s weatherproof claimed
Cold Discharge	**−15 °C full power** cell heating · 2,000 m altitude	−20 ~ 40 °C	−20 ~ 60 °C	−10 ~ 45 °C	−20 ~ 45 °C
UPS & Noise	**<20 ms · <30 dB** switchover · fanless whisper-quiet	— · n/s	— · <55 dB	— · n/s	— · n/s

n/s = not stated in competitor spec sheets · — = not available Source: official competitor spec sheets, as of Oct 2026 · Full 13-dimension matrix available on request

WHERE FX100 WINS · HEAD-TO-HEAD

Six places where FX100 pulls ahead.

Surge · Battery · Protection · Backup · Silence · Mobility

	FX100	THE REST · COMPETITION
01 Surge Power	21.6 kW peak, 150% overload >500 s	12–16 kW peak; PESS 19 kW for 0.1 s only
02 Battery Life	$LiFePO_4$ 3,000 cycles — a decade of daily use	ESS D ≈1,000 cycles (NMC)
03 All-Weather	IP65, salt-spray proof, full power at −15 °C	Mostly IP54 or n/s; ESS D min −10 °C
04 UPS-Grade Backup	<20 ms switchover — critical loads never drop	None of the four has UPS
05 Whisper Quiet	Fanless <30 dB — invisible in hospitals & offices	PESS <55 dB, others unstated
06 Recharge & Mobility	3.6 kW grid, full in <3.5 h — 104 kg trolley	Jupiter grid input 1.11 kW; Voltstack 180 kg

Note: ESS D 11/8 leads on single metrics — 11 kW continuous, 400 V three-phase. FX100 wins on the all-round balance.

SPECIFICATIONS · EU VERSION

Specifications.

Rated output	7,200 W · 230 VAC · 50 Hz
Peak power	21.6 kW
Battery	10,240 Wh $LiFePO_4$ · 3.2V × 20Ah × 20S × 8P
AC input	3,600 W · 230 VAC · 16 A · THDi < 5% · PF > 0.95
Charge time	< 3.5 h (0–100%)
Protection	IP65 · Class I · V0 flame retardant
Weight / dimensions	104kg · 526 × 485 × 611 mm
Noise	< 30 dB (quiet mode)
Operating temp	Discharge −15 ~ 55 °C · Charge 5 ~ 40 °C · 2,000 m altitude
Warranty	4 years

Socket options: EU / FR / UK / AU / GB / CH · Output overload: 150% >500 s · 200% >50 s · 250% >10 s

ROADMAP

Certification
CE · CB · EMC · UN38.3

Samples
Available for partner evaluation

Mass Production
[TBD — to be confirmed]

Fullas

Thank you.

Together, we charge forward.

www.fullasmachine.com