

## EMISSION-FREE, SILENT POWER

The POWRBANK XPRO PLUS energy storage system works with diesel generators to reduce carbon emissions and fuel usage by up to 80%. When used with renewable energy sources, it provides extended periods of zero-emission power.



MODEL	VOLTS	KVA	kWH	PHASE
XP 100.100-400	400	100	102	Three

## POWER

Output (stand alone)	Standby Rating 30 min (kVA) @ 77°F <sup>1</sup>	100
	Prime Rating (kW) @ 77°F / 122°F <sup>2</sup>	100
	Full Load Current	150A
	Continuous Output @25°C	100kW / 100kVAR
	Continuous Output @45°C	80kW / 80kVA
Output (when external source available)	Maximum Load per Phase Before Generator Start Command (kW) <sup>2,5</sup>	32
	Maximum Load (all phases) Before Generator Start Command (kW) <sup>5</sup>	95
Combined System Output	Continuous Pass Through per Phase (External Source Only) (A)	250
	Max Combined Output per Phase (External Source + HES) (A)	400
	Combined Power (kW) <sup>1</sup>	277
Input/Output	AC Input Voltage Range (Recommended)	380VAC - 440 VAC (3 Ph)
	AC Input Frequency	45Hz - 55Hz
	AC Input (Range Limits)	320VAC - 460VAC (3 Ph) 187VAC - 265VAC (3 Ph)
	Internal Passthrough	250A
	AC Output Voltage - 50 Hz (V)	400VAC + 2% , 230VAC + 2%
	Auto Start	4mm Binding Post, bare wires
	Earthing	Auto MEN Connection (If enabled) when inverting. When running from genset, it relies on there being a neutral earth bond in the genset. The earth stud at the bottom, input and output earth and the chassis earth are all bonded together within the unit.
	Input Connections	1 x 125A, 3ph CEE Inlet 1 x 16A, 1ph CEE Inlet 400A Powerlock Inputs
	Output Connections	1 x 125A, 3ph CEE Socket 3 x 63A, 1ph CEE Socket 5 x 32A, 1ph CEE Socket 1 x 16A, 1ph CEE Socket 400A Powerlock Outlet
	Protection	Overload, Overheat, Short Circuit, Earth Fault

## STORAGE

Type	LFP Li-Ion
Nominal Capacity @ 77°F (kWh)	102 kWh
Usable Capacity	102 kWh
Max Charge Current	148A
Charge Time (hours) @ 77°F <sup>3</sup>	1 Hr
Maximum Efficiency @ 77°F	90%
Battery Management System	Industrial Grade Intelligent Passive BMS Optimised for HES Applications
Expected Cycle Life (To 80% Original Capacity)	6,000 Cycles
Maintenance Charge Cycle	< 4 weeks
DC Voltage Range	583 V - 777 V
Depth of Discharge	90%

CONTROL	Control Panel	ECM 10" HMI Touch Screen ADVANTAGE Control Module
	Temperature Control	Intelligent Thermal Controlled Based System with HVAC
	Fire Suppression	Aerosol Based Fire Suppression with Smoke Detection and Audible Alarms
	Remote Generator Start	Dry Contact Relay
	Remote Communication	4G/5G Dual SIM Modem/Router, POWR2 Portal
ENVIRONMENTAL	Water/Ingress Protection Rating	IP55
	Operating Temperature Range (°C) <sup>4</sup>	-12°C to 50°C
	Sound Level (dBA)	60 db @ 1m
MECHANICAL	Dimensions L x W x H (mm)	2500mm x 1398mm x 2060mm
	Weight (kg)	3300kg
	Lift Points	Forklift Pockets, 4 Point Lifting Ring & Drag Skid
GENERAL	Safety Certifications <sup>6</sup>	UL2202, CSA 22.2 No 107.1, UL9741, UL1741, UL508 IEC62909-1/2, EN62477, IEC61000
	Grid Connections	VDE-AR-N 4105, UL1741SB, CSA 22.3, G88, G99, AS/NZ 4777.2
	Features	Longer Cycle Life, Programmable Output Sockets, AC Solar Compatible, Programmable Energy Meter, Remote Monitoring System and Advanced Controls, Auto Load Shedding, Inbuilt system bypass, Lag-Lead Power Factor Support
	Optional Features	30kW Fast DC DC Charger with Output Voltage Range from 200V - 1000V DC



<sup>1</sup> Rated standalone KVA rating <sup>2</sup> Based on the system SoC and temperature conditions <sup>3</sup> Charge time dependent on available power of external source and operating temperature. <sup>4</sup> When the internal battery temperature reaches below -10°C or above 45°C, the charge current is reduced to 0.05C to protect the batteries. <sup>5</sup> Without exceeding Max. Load per Phase. <sup>6</sup> Undergoing testing. <sup>7</sup> Document updated January 2025. While POWR2 aims to ensure all documentation is accurate, no responsibility will be accepted for errors or omissions. This document is not intended to be contractual. © POWR2 2024 Datasheet XPRO PLUS 100.100-400 v1.2