

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	480 208	100 52	108 108	Three Three

Battery Specifications	Model	Pylontech M3A Battery
	Battery Type	LFP (LiFePO4)
	System Weight	2,900kg / 6,393lbs
	Dimensions	19" Standard Rack Dimensions
	Mounting	Rack Mounted
	Warranty	5 Year Product Warranty, 10 Year Performance Warranty or 6,000 cycle life
	Safety Standards ⁴	UL1642, UL1973, UL9540A, UN38.3, IEC 62619, IEC 62477-1, VDE -AR-E 2150-50:2017, EN IEC 61000-6 (-1:2019, -2:2019, -3:2007+A1, -4:2007+A1, -1:2016, -2:2016, -3:2006+A1, -4:2018)
Electrical	Energy Capacity	108kWH
	Usable Capacity	97.2kWH
	Depth of Discharge	90%
	Nominal Voltage	729.6V
	Operating Voltage	615.6V - 820.8V
Operation	Max Charging Current	148A
	Max Discharging Current	148A
	Operating Temperature ¹	-20°C to 65°C
	Humidity	0-95%
BMS	Modules	19 Modules in Series
	Power Consumption	< 160W (Working), < 20W (Sleep)
	Monitoring Parameters	System Voltage, Current, Power, Cell Voltage, Cell Temperature, Cycle Times, SoC, Module PCB Temperatures, BMS and Power Terminal Temperature
Certificate	Communication	CAN and LAN Compatible
	Transportation	UN38.3
	Model	Oztek RS-40
Inverter Specification	Battery Type	LFP (LiFePO4)
	System Weight	43kg / 97lbs
	Dimensions	19" Standard Rack Dimensions
	Mounting	Rack Mounted
	Warranty	5 Year Product Warranty
	Safety Standards ⁴	UL1741SA, CA Rule 21 Phases 2 & 3, CSA 22.2 #17, IEEE 1547, Sunspec Cert #032-001, California Energy Commission, SGIP, IEEE 519, IPC9592
Battery Input Data	System Voltage Range	615-820VDC
	Max Charging Current	148ADC
	Max Discharging Current	148ADC
	Nominal Voltage	729VDC

AC Output Data on Grid	Nominal AC Power (kW)	200kW
	Max AC Power (kVA) ²	207kVA
	Max AC Current (A)	250A
	Nominal Input Voltage Range (V)	440V - 520V / 187V - 240V
	Nominal Output Voltage (V)	1. Standard - 480V (3 Phase - Wye), 2. Auxiliary Output Voltage - 120VAC - 1 Phase / 1. Standard - 208V (3 Phase - Wye)
	Nominal Frequency (Hz)	60Hz ± 0.5Hz
	THDi	< 3%
	Power Factor	Adjustable (From -1 to +1)
AC Output Data (Standalone)	Nominal AC Power (kW)	103kW @ 480V / 45kW @ 208V ³
	Max AC Power (KVA)	120kVA @ 480V / 52kVA @ 208V
	Max AC Current (A)	125A (3 Phase), 15A (1 Phase Auxiliary)
	Nominal Output Voltage (V)	1. Standard Voltage - 480V (3 Phase - Wye) / Standard Voltage - 208V (3 Phase - Wye) 2. Auxiliary Output Voltage - 120VAC
	Nominal Frequency (Hz)	60Hz ± 0.5Hz
Protection	AC Overcurrent Protection	Integrated
	Earth Fault Monitoring	Integrated
	Anti-Islanding Protection	Integrated
General Data	Dimensions (mm/in)	2,647mm x 1,398mm x 2,060mm / 104in x 55in x 81 in
	Weight	3,300kg / 7,275lbs
	Ambient Temperature	-20°C to 65°C / -4°F to 149°F
	Relative Humidity	0-95%
	Topology	Bi-directional, Galvanically Isolated
	Standby Losses	< 250W
	Cooling & Heating	Forced Cooling with HVAC and Heater
	Noise Emission	55db @ 1m
	Monitoring	10.1" HMI Display for Local Monitoring, Web-Based Portal for Remote Monitoring
	Communication	RS485, Ethernet and Modbus
	Connectivity	Wireless, 3G/4G Router
	Standard Warranty	5 Years
	Fire Hazard Protection	Audible Alarms, Thermal Detectors and Aerosol Containers
	Application Area	Non-Residential: Outdoor and Indoor

¹When the internal battery temperature reaches below 32°F or above 113°F, the charge current is reduced to 0.05C to protect the batteries. ² Rated standalone KVA rating ³ Power de-rating of the unit occurs at 208V. ⁴ Undergoing testing. Document updated October 2024. 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 100.100-480/208 v3.1