



Inverter + Lithium Battery

Arenq Series



ESS

ARENQ
Forward To Future

PowerX Pro

Welcome to the next generation of smart energy solutions with ARENQ PowerX Pro an advanced Lithium Powered Energy Storage System ESS engineered for modern homes, offices, shops, clinics, gyms, and applications. Designed with cutting-edge lithium battery technology and intelligent power management, PowerX Pro delivers reliable backup, superior efficiency, and seamless solar compatibility for uninterrupted performance.

The PowerX Pro series combines pure sine wave output, smart protection systems, solar integration, and app-based monitoring to ensure safe, stable, and energy-efficient operation. Built using high-quality LiFePO4 battery technology, the system offers long cycle life, fast charging capability, silent operation, and minimal maintenance, making it an ideal replacement for conventional backup systems.



Lithium
Technology



Pure Sine
Wave



Smart
Protection



Solar
Compatible



App
Monitoring



Silent
Operation





Parameters / ESS		PowerX 3.6kW HYBRID	PowerX 6.2kW HYBRID	PowerX 11kW HYBRID
ESS Parameters	Rated Inverter Capacity	3 kW	6.2 kW	11 kW
	Rated Energy Storage	5.12 kWh	10.24 kWh	20.48 kWh
Battery Parameters	Rated Voltage	25.6 V	51.2 V	51.2 V
	Rated Capacity	200Ah		400Ah
	Battery Type	Lifepo4		
	No of Cycle	>3000		
Inverter Parameters	Input Sources	L+N+PE		
	Voltage Range	90-280VAC+3V (Normal Mode)170-280VAC+3V (UPS Mode)		
	Frequency	50Hz/60Hz (Auto Adaptive)		
	Rated Output Voltage	220/230/240VAC		
	Output Waveform	Pure Sine Wave		
	Transfer Time (adjustable)	Computers (UPS Mode)10ms, Appliance (APL Mode)20ms		
	Output Waveform	Battery mode11s@105% Load:2S@150%~200%Load:400ms@>200% Load		
	Feed into the Grid voltage range	Not Available	195-253VAC	
	Feed into the Grid frequency range	Not Available	49-51#1Hz/59-61=1 Hz	
	Maximum conversion efficiency (DC/AC)	98%		
	PV Charging Mode	MPPT		Dual MPPT
	MAX.PV Input Power	3000W	7500W	2*5500W
	MPPT Tracking Range	60-500Vdc		90-500Vdc
	PV max Input current	15A	27A	18A /18A
	MAX PV Charging Current	100A	120A	150A
	MAX AC Charging Current	60A	100A	150A
User Interface	Display & LED Indication	Graphical LCD Indicating Running Status & Grid ON Alarm / Inverter ON / Charging Status/Fault		
	Battery Parameters	Battery SOC / Alarms / Indications etc.		
	PV Parameters	PV voltage / MPT Charger Current / Power / Indication etc.		
	AC Parameters	Grid Voltage / Frequency / Power / Current / Indication etc.		
	System Level Parameters	Mode of Operation / Active Faults / System Mimic etc.		
	RS 232	5 Pin / Pitch 2.54 mm, Baud Rate 2400		
	Parallel machine interface	No Parallel Function	Parallel Machine (Nwk) Function	
Warning & Protection	PV Side	Surge Protection & Fuse		
	Battery Side	Over / Under voltage Protection & Over Current Protection		
	Grid Side	Over / Under voltage & Frequency Protection & Over Current Protection & Surge Protection		
	Load Side	Overload & Short CKT Warning & Protection		
	System Protection	Over Temperature Trip & Circuit Breakers at all Paths / Manual Bypass		
Monitoring	Remote	Wi-fi Based RMS (Remote Monitoring System)		
		Mobile Applications & Web Based for Inverter		
	Local	Bluetooth Connectivity for Battery		
Environment Operating Condition	Operating Temperature	-10°C to 50°C		
	Storage Temperature	- 15°C to 60°C		
	Humidity	Max 95% (non-condensing)		
	Degree Of Protection	IP-21		
	Altitude	Altitude Not Over 1000m, Derating over 1000m, Max 4000m, Refer to IEC62040		
Physical	Net Weight	~ 65Kg	~120Kg	~250Kg
	Dimensions (L x B x H) mm	475 x 240 x 750	475 x 240 x 1060	600 x 360 x 1550