

PX240

125kW / 241kWh Solution

Join 4 units together for up to 500kW of power
*Energy Storage for Large Commercial
& Industrial Applications*



Key Benefits

- **On & Off-Grid Compatible:** Full load backup and generator ready
- **Industrial Scale:** 125kW continuous power per module
- **Scalable to 500kW with included AC combiner**
- **Massive Capacity:** 241kWh storage with 2+ hour duration
- **Maximum Solar:** 200kW solar array integration with 8 MPPT trackers
- **Australian Engineered:** Purpose-built for flexible indoor and outdoor deployment
- **Smart Monitoring:** Pandora control and management with WiFi/LAN/4G connectivity

Why Choose PX240?

Industrial Engineering: Purpose-built hot-dip galvanised skid for demanding commercial and industrial environments.

Proven Reliability: LFP battery technology with 10-year Australian warranty and comprehensive protection systems.

Complete Solution: PAX provides all 9 essential system components including full engineering support.

Smart Integration: Advanced energy management system optimises solar generation, grid interaction, load management and optional generator control automatically.

Installation & Support

- Prewired 160-800A MCCBs and built-in bypass reduce installation complexity
- End-to-end installer guidance and rewards program
- Ongoing technical support from our Australian-based engineering team
- 10-year warranty within Australia. Terms and conditions apply



Model	PX240 - 125kW
AC Data	
Rated Output Active Power (kW)	125
Peak Power (off-grid)	1.1 times rated power for 10s
Rated AC Output Current (A)	181
Max. continuous AC passthrough (A)	800
AC Switchgear	Prewired 160-800A Supply/Load/Smart Port MCCBs + Bypass
Battery Data	
Battery Type	LFP (314Ah Cells)
Operating Voltage (Vdc)	624-876
String Nominal Voltage (Vdc)	768 (15 x 51.2)
Max Dis/Charge Current (A _{dc})	180
Nominal Battery Capacity (kWh)	241.20 (15 x 16.08)
PV Data	
Allowable Array Size (kW)	200
Usable Array Size (kW)	200
PV Input Voltage Startup Range (Vdc)	200 - 1000
MPPT Voltage Range (Vdc)	200 - 1000
Full Load MPPT Voltage Range (Vdc)	450 - 850
Max. Operating PV Input Current (A _{dc})	40 per tracker (8 trackers)
Max. Input Short-Circuit Current (A _{dc})	60 per tracker (8 trackers)
No. of Strings per MPP Tracker	2 per tracker (8 trackers)
Monitoring and Control	
Internet Connectivity	WiFi and LAN ready or optional 4G SIM / Starlink subscription
Pandora – PAX’s Software Platform	Advanced Control / Proactive Monitoring / Fleet Management
Protection & Certifications	
Equipment Protection	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, AC Output, Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection, DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring, Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, Overvoltage Load Drop Protection, Residual Current (RCD) Detection
Anti-islanding Protection	Yes (Active Frequency Shift)
Surge Protection Level	Type II (DC), Type II (AC)
Grid Regulation	AS/NZS 4777.2, IEC 61727, IEC62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Inverter Model	SUN-100K-PCS01HP3-AU
Mounting specifications	Hot-dip galvanised skid – no concrete slab required
Operating Temperature Range	0 to +55°C, >45°C Derating
Climate Control	Built-in HVAC
Noise	≤ 65 dB
Inverter Topology	Non-Isolated
System Dimensions (mm)	2905W x 1110D x 1850H
Weight (Inv + Batt + Balance) (kg)	2,580 (220 + 1850 + 510)
Ingress Protection Rating (IP)	IP65
Warranty	10-year warranty within Australia. Terms and conditions apply.

