

PX100

29.9 or 50kW / 30-102kWh Solution

Federal Battery Rebate Ready (up to 92kWh)
Flexible Power for Growing Commercial Applications



Key Benefits

- **On & Off-Grid Compatible:** Full load backup and generator ready
- **Plug & Play Installation:** Hot-dip galvanised skid requires no concrete slab
- **Scalable Design:** 29.9 or 50kW with up to 3hr configurations available
- **Optional EV Charging:** Integrated 40kW DC EV charger within same footprint
- **Australian Engineered:** Purpose-built for flexible indoor and outdoor deployment
- **Smart Monitoring:** Pandora control and management with WiFi/LAN/4G connectivity

Why Choose PX100?

Right-Sized Solution: Choose the capacity combination for your current needs with room to grow.

Engineered Excellence: In-house Australian design delivers superior performance and ROI.

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 switchgear and built-in bypass reduce installation time
- 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	PX100 - 29.9kW	PX100 - 50kW
AC Data		
Rated Output Active Power (kW)	29.9	50
Peak Power (off-grid)	1.5 times rated power for 10s	
Rated AC Output Current (A)	43.4	72.5
Max. continuous AC passthrough (A)	100	
AC Switchgear	Prewired 100A Supply/Load/Smart Port MCBs + Bypass	
Battery Data (shown for the 92.16kWh configuration)		
Battery Type	LFP (100Ah Cells)	
Operating Voltage (Vdc)	374 - 527	
String Nominal Voltage (Vdc)	460.8 (9 x 51.2)	
Max Dis/Charge Current (A)	50 + 50	50 + 50 (45kW)
Nominal Battery Capacity (kWh)	92.16 (18 x 5.12)	
PV Data		
Allowable Array Size (kW)	59.8	100
Usable Array Size (kW)	44.85	75
PV Input Voltage Startup Range (Vdc)	180 - 1000	
MPPT Voltage Range (Vdc)	150 - 850	
Full Load MPPT Voltage Range (Vdc)	360 - 850	450 - 850
Max. Operating PV Input Current (A)	36 + 36 + 36	36 + 36 + 36 + 36
Max. Input Short-Circuit Current (A)	55 + 55 + 55	55 + 55 + 55 + 55
No. of Strings per MPP Tracker	2 + 2 + 2	2 + 2 + 2 + 2
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	
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	
General Data		
Inverter Model	SUN-29.9K-SG01HP3-AU-BM3	SUN-50K-SG01HP3-AU-BM3
Mounting specifications	Hot-dip galvanised skid – no concrete slab required	
Operating Temperature Range	0 to +55°C, >45°C Derating	
Climate Control	Active Ventilation	
Noise	≤ 65 dB	
Inverter Topology	Non-Isolated	
System Dimensions (mm)	2200W x 790D x 2196H	
Weight (Inv + Batt + Balance) (kg)	1,256 (80 + 826 + 350)	
Ingress Protection Rating (IP)	IP65	
Warranty	10-year warranty within Australia. Terms and conditions apply.	

