

UNLIMITED

XPB-M20



**With on-board
Transformer and
Switch Function**

XPB-U150-140-M20
150 kW Inverter and
140-480 kWh Storage

XPB-U250-240-M20
249,5 kW Inverter and
240-480 kWh Storage

XPB-U500-480-M20
500 kW Inverter and
480 kWh Storage

PARALLEL PLATFORM TECHNOLOGY

The ability of the power box to be combined with different energy sources and to sum up their combined power outputs.

UNIQUE BI-DIRECTIONAL HYBRID INVERTER

In-house designed interface technology allowing the Power Box to charge and discharge using only one inverter.

UNIQUE ACTIVE BATTERY MANAGEMENT SYSTEM (ABMS)

Monitoring and controls to actively ensure maximum battery life span and optimum efficiency are achieved.

PLUG & PLAY

Easy installation and with the possibility to combine the Power Box with grid supply, renewable energy sources and a generator.

BACKUP POWER

Blackout? With the Power Box you will continue to be supplied and the solar system will work as well.

HEALTH STATUS MONITORING

Ensuring that the complete system is functioning efficiency at all times.

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	XPB-U	U150	U250	U500
Unit Details	Dimensions (LxWxH)	6.06 x 2.44 x 2.9 m 20 ft. High Cube Container		
	Base Weight	Depending on inverter / battery storage configuration		
	Lifting Points	Container transport		
	Protection	Sea Shipping Container, IP68 for Battery Packs		
Use	Installation	Indoor / Outdoor, IP54		
	Mounting	Container mounted		
	Ambient Temperature	-20 °C to +35 °C, with tropical option up to +45 °C		
	Max. Humidity	90 % not condensing		
	Max. Altitude	4000 m (with a derating above 2000 m)		
Power Electronics	Inverter Power	150 kW	249,5 kW	500 kW
	Transformer	On-Board / 400 V, 3P+N+PE		
	Switch Function	On-Board		
Storage	Battery Type	Lithium Iron Phosphate (LiFePO ₄)		
	Cell Safety	Over-Current, Over-Temperature, Over-Pressure, Over-Voltage Protection, internally fused (irreversible)		
	Net. Capacity	140 kWh (Standard) expandable up to 480 kWh (in 20 kWh modules)	240 kWh (Standard) expandable up to 480 kWh (in 20 kWh modules)	480 kWh
	Battery Voltage	Nominal 650 V DC, Range: 585 to 744 V DC		
	Management	aBMS (active Battery Management System)		
	Heating	Air Conditioning System for Heating and Cooling System		
Connection	AC Input	400 V, 3P+N+PE, 730 A (for DG's up to 500 kVA)	400 V, 3P+N+PE, 1200 A (for DG's up to 750 kVA)	400 V, 3P+N+PE, 2400 A (for DG's up to 1,5 MVA)
	AC Output	400 V, 3P+N+PE, 950 A	400 V, 3P+N+PE, 1600 A	400 V, 3P+N+PE, 3200 A
	Types of Network	TN / TN-C / TN-S		
	Grid Frequency	EU: 50 Hz (45-55 Hz)		
	XPB Connection Interface	Input: screwed (Option Powerlock) Output: screwed (Option Powerlock) 4x blind output boards	Input: screwed Output: screwed 4x blind output boards	Input: screwed Output: screwed 4x blind output boards
Safety	Cell Operating Range	-20 to +60°C discharge +5 to +55°C charge		
	Protection Measures	Integrated Thermal Management (passive cooling), integrated Voltage Protection, integrated Cell Internal Resistance Monitoring, integrated Over Current Protection (aBMS ≥ 75 A, Fuse 100 A)		
	Fire Protection	Thermally triggered extinguishing system (N ₂ / CO ₂) in every Battery-Pack. Integrated multi-sensor CO ₂ fire extinguishing system in Storage and Power Electronics Area.		
Options	60 Hz (55-65 Hz) Version, Country-specific Transformers, variable output distribution board configuration			
Standards	EN 61439-1, EN 61439-2, EN 61439-3, EN 61439-4, OVE E 8101, IEC 60364			

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