

# UNLIMITED

## XPB-M40



### With on-Board Inverter and Switch Function

#### **XPB-U250-240-M40**

249,5 kW Inverter and  
240-1000 kWh Storage

#### **XPB-U500-480-M40**

500 kW Inverter and  
480-1000 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	U250	U500	
Unit Details	Dimensions (LxWxH)	12.19 x 2.44 x 2.9 m 40 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	249,5 kW	500 kW	
	Transformer	On-Board / 400 V, 3P+N+PE		
	Switch Function	On-Board		
Storage	Battery Type	Lithium Iron Phosphate (LiFePO <sub>4</sub> )		
	Cell Safety	Over-Current, Over-Temperature, Over-Pressure, Over-Voltage Protection, internally fused (irreversible)		
	Net. Capacity	240 kWh (Standard) expandable up to 1000 kWh (in 20 kWh modules)	480 kWh (Standard) expandable up to 1000 kWh (in 20 kWh modules)	
	Battery Voltage	Nominal 650 V DC, Range: 585 to 744 V DC		
	Management	aBMS (active Battery Management System)		
	Expandability	In Parallel up to 240 MW / 576 MWh		
	Heating	Air Conditioning System for Heating & Cooling as Standard		
Connection	AC Input	400 V, 3P+N+PE, 2000 A (for DG's up to 1000 kVA)	400 V, 3P+N+PE, 2400 A (for DG's up to 1,5 MVA)	
	AC Output	400 V, 3P+N+PE, 2550 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 Output: screwed 4 x blind output boards	Input: screwed Output: screwed 4 x 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 <sub>2</sub> / CO <sub>2</sub> ) in every Battery-Pack Integrated multi-sensor CO <sub>2</sub> fire extinguishing system in Storage and Power Electronic 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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