

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, EN 60204-1 / IEC 60364 | | | | |

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