

BASIC

XPB-B35 AND XPB-B80



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.

HEALTH STATUS MONITORING

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

**With 35 or 80 kW Inverter and
Storage up to 140 kWh**

**XPB-B35 Range and XPB-B80-80 /
100 can be equipped with
Transformer and Switch Function
as an option.**

BASIC

| | XPB-B | B-35 | | B-80 | |
|--------------------------|---|--|---|---|---|
| Unit Details | Dimensions (LxWxH) | 2350 mm x 1050 mm x 2470 mm | | | |
| | Base Weight | 1000-2420 kg (depending on battery capacity) | | 1710-2550 kg (depending on battery capacity) | |
| | Lifting Points | Forklift points and annular nuts for lifting with a crane | | | |
| | Protection | IP 68 (Battery Pack) | | | |
| Use | Installation | Indoor | | | |
| | Mounting | Rack-Mounted / easily transportable | | | |
| | Ambient Temperature | 0 °C to +35 °C | | | |
| | Max. Humidity | 90 %, not condensing | | | |
| | Max. Altitude | 4000 m (with a derating above 2000 m) | | | |
| Power Electronics | Inverter Power | 35 kW | | 80 kW | |
| | Transformer | not included, but optional for XPB-B35 Range and XPB-B80-80 / 100 models - / 400 V, 3P+N+PE | | | |
| | Switch Function | not included, but optional for XPB-B35 Range and XPB-B80-80 / 100 models | | | |
| Storage | Battery Type | Lithium Iron Phosphate (LiFePO ₄) | | | |
| | Cell Safety | Over-Current, Over-Temperature, Over-Pressure, Over-Voltage Protection, internally fused (irreversible) | | | |
| | Net Capacity | 40 kWh (Standard) expandable to 140 kWh (in 20 kWh modules) | | 80 kWh (Standard) expandable to 140 kWh (in 20 kWh modules) | |
| | Battery Voltage | Nominal 650 V DC, Range: 585 to 744 V DC | | | |
| | Management | aBMS (active Battery Management System) | | | |
| | Multitracking | XPB units connected up to 2,4 MWh using only 1x inverter | | | |
| Connection | AC connection | B35 | B35TS | B80 | B80TS-80/100 |
| | | 63 A max. | Input: 125 A max. Output: 185 A max. | 125 A max. | Input: 125 A max. Output: 200 A max. |
| | | 400 V 3P+N+PE | | | |
| | Types of Network | TN / TN-C / TN-S | | | |
| | Grid Frequency | EU: 50 Hz (45-55 Hz) | | | |
| XPB Connection Interface | hard wired / screwed | | | | |
| 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 | | | |
| Options | 60 Hz (55-65 Hz) Version, Country specific Transformers (for XPB-B35 Range, XPB-B80-80 and XPB-B80-100) | | | | |
| Standards | EN 61439-1, EN 61439-2, EN 61439-3, EN 61439-4, OVE E 8101, IEC 60364 | | | | |

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