

OFF-GRID SYSTEMS



Plug'n'play Power System Xtender Power Pro AC6000 3PH

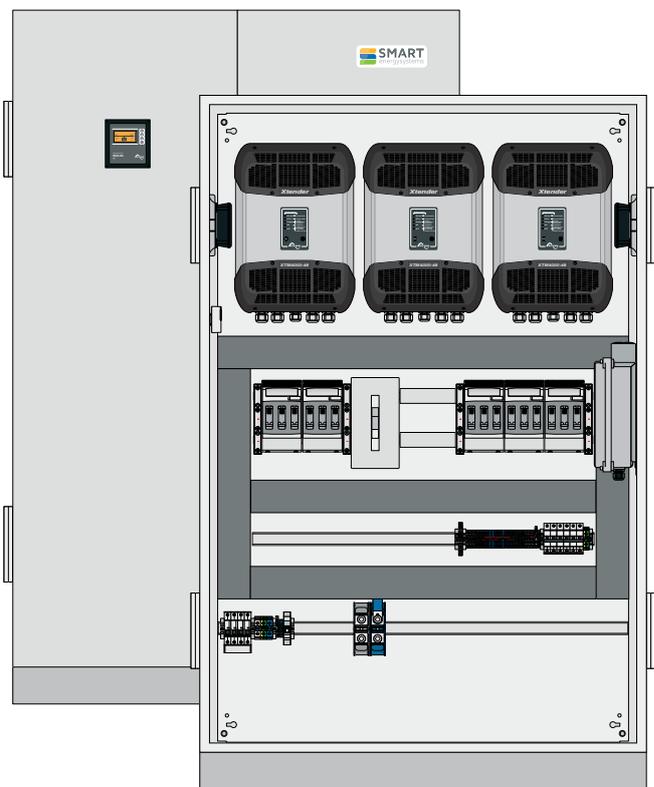
The Xtender Power Pro 3PH series represents smart solutions for 3-phase AC power supply of remote locations. German manufacturing and the use of high-grade components guarantee a quality standard that meets the demands of private and industrial customers.

All electrical components are pre-assembled and pre-wired in a compact control cabinet. Each system is tested and delivered ready-to-operate. The plug'n'play concept of the Xtender Power Pro series guarantees a simple and error-free installation and commissioning on site.

The Xtender Power Pro cabinets are equipped with Studer Xtender inverterchargers in combination with Studer VarioTrack and VarioString MPPT charge controllers. All systems include a control unit/display/data logger (Studer RCC-03) and battery status processor (Studer BSP-500) for accurate battery state of charge determination. Optionally the system can be monitored and controlled via remote access (XCom LAN / GSM / SMS / 232i).

The system's central DC and AC input/output terminals are clearly arranged. The solar generator can be safely disconnected from the system by a PV circuit breaker. NH fuse switches as well as circuit breakers (CB/RCD) secure all DC and AC circuits. If required, all inputs and outputs can be equipped with surge protection devices.

A thermally controlled fan system maintains a constant temperature inside the cabinet and ensures a long life of the electrical components.



Layout of cabinet (front/inside view) Xtender Power Pro AC6000 3PH

PV Power



Inverter Power



Special Features

- Pre-assembled all-in-one IP54 control cabinet
- Use of high-quality devices and components
- Central monitoring and data logging
- Standard-compliant fuse and switch components
- Well arranged AC and DC input/output terminals



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Xtender Power Pro 3PH

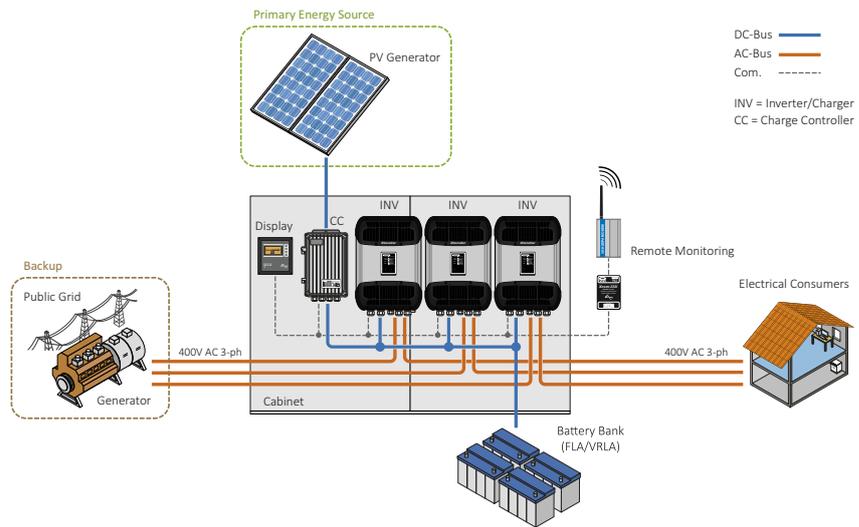
Plug'n'Play Power System

Application

The Xtender Power Pro 3PH is designed for off-grid power supply of 230V AC single-phase and 400V AC three-phase loads. Generally the photovoltaic generator represents the primary source of energy. Depending on favourable wind conditions and availability of hydro potentials at site, small wind or micro-hydro generators can be added to increase energy production.

In order to secure an uninterrupted power supply all over the year a diesel, petrol or gas generator is recommended for backup power supply.

The Xtender Power Pro system is primarily designed for the use of lead-acid batteries (FLA/VRLA). To ensure a long service life in high-cycle applications, sealed tubular plate (OPzV) batteries are recommended. For special applications alternative storage technologies such as nickel or lithium batteries can be used.



System scheme of a Xtender Power Pro 3PH off-grid system

Technical Data

Type	Xtender Power Pro 3PH AC6000
Inverter/Charger	3x XTM 2600-48
MPPT charge controller	VT 80
Battery voltage	48V
Max. PV power*	5kWp
Max. PV input voltage	150V
No. of MPP tracker	1
Nominal AC power (25°C)	6kVA (3-phase)
Max. charge current (gen./grid)	90A DC
Monitoring/Control/Logger	Studer RCC-03 (remote access optional: Xcom RS232/LAN/GSM/SMS)
AC fuse IN / OUT (standard)	3x25A / 3x25A
DC fuse (battery)	NH00 80A / 160A
Ventilation	temperature controlled up to 190m³/h
Features	RCC03 in front door, Studer BSP-500, PV breaker, PEN bridge (optional)
Type of cabinet	ground-mounted (steel plate, powder coated)
Dimensions (wxhxd) in mm**	1200 x1800 x400
Weight	approx. 255kg



*exceeding PV power will be limited to the given maximum / **plus 100mm height of socket for ground-mounted cabinets

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