

OFF-GRID SYSTEMS



Plug'n'play Power System Multi Power Pro AC **NEW**

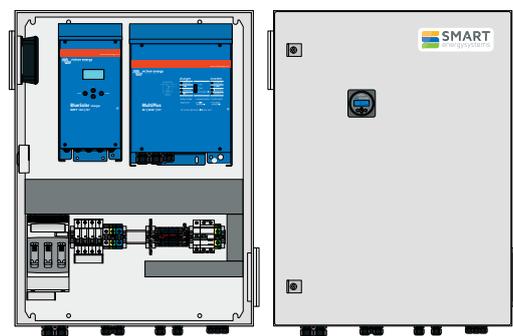
The Multi Power Pro series represents smart solutions for the power supply of remote locations. German manufacturing and the use of high-grade components guarantee a high quality standard.

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 Multi Power Pro series guarantees a simple and error-free installation and commissioning on site.

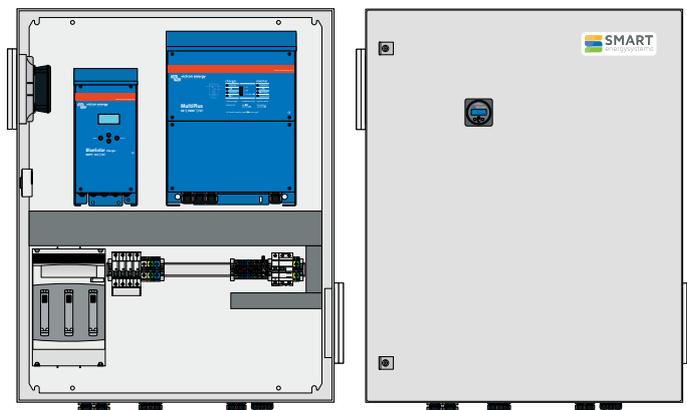
The Multi Power Pro cabinets are equipped with the Victron Energy MultiPlus inverter/charger series in combination with Victron Energy BlueSolar MPPT charge controllers. All systems include a battery status monitor (VE BMV-700) for accurate battery state of charge determination. Optionally the system can be equipped with a control unit / color display (VE ColorControl GX) with integrated datalogger and remote monitoring via internet.

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 other DC and AC circuits. If required, all inputs and outputs can be equipped with surge protection devices.

The Multi Power Pro cabinets are available for wall and ground installation. A thermally controlled fan system maintains a constant temperature inside the cabinet and ensures a long life of the electrical components.



Layout of cabinet Multi Power Pro AC3000



Layout of cabinet Multi Power Pro AC5000

PV Power



Inverter Power



Special Features

- Pre-assembled all-in-one IP54 control cabinet
- Use of high-quality devices and components
- Shunt-based digital battery monitor
- Standard-compliant fuse and switch components
- Well arranged AC and DC input/output terminals



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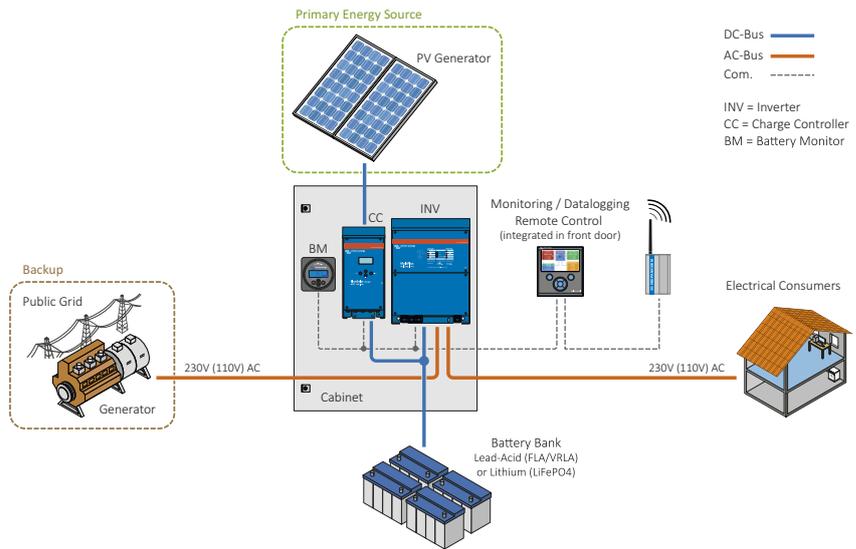
Multi Power Pro Plug'n'Play Power System

Application

The Multi Power Pro is designed for off-grid power supply of common 230V (110V) AC single-phase consumers. 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 Multi Power Pro system is designed for the use of lead-acid (FLA/VRLA) and lithium (LiFePO4) batteries. For stationary high-cycle applications sealed tubular plate (OPzV) batteries are recommended to ensure best price-performance ratio and a long service life.



System scheme of Multi Power Pro off-grid system

Technical Data

Type	Multi Power Pro		
	AC1600 <small>NEW</small>	AC3000 <small>NEW</small>	AC5000 <small>NEW</small>
Inverter/Charger	MultiPlus Compact 24/1600	MultiPlus 48/3000/35/50	MultiPlus 48/5000/70
MPPT charge controller	BlueSolar MPPT 100/50	BlueSolar MPPT150/70	BlueSolar MPPT150/85
Battery voltage	24V		48V
Max. PV power*	1.4kWp	4kWp	4.85kWp
Max. PV input voltage	100V		150V
No. of MPP tracker		1	
Nominal AC power (25°C)	1.6kVA	3kVA	5kVA
Max. charge current (gen./grid)	40A DC	35A DC	70A DC
Monitoring/Control/Logger	Battery monitor BMV-700 (optional: remote monitoring/datalogging via ColorControl GX)		
AC fuse IN / OUT (standard)	16A / 16A	25A / 25A	32A / 32A
DC fuse (battery)	NH00 160A	NH00 160A	NH1 250A
Ventilation (temperature controlled)	up to 55m³/h		up to 95m³/h
Features	BMV-700 in front door, PV breaker, RCD/CB for AC-OUT, PEN bridge (optional)		
Type of cabinet (steel plate, powder coated)	wall-mounted		wall- or ground-mounted
Dimensions (wxhxd) in mm***	600 x760 x210	600 x800 x250	800 x1000 x300
Weight	approx. 55kg	approx. 68kg	approx. 107kg



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

Your Dealer

