







PV Battery Storage System

**SmartEnergy+ DC** NEW

-  PV power up to 24kWp
-  Inverter power up to 24kW
-  Lead-acid or lithium batteries
-  Built-in grid and plant protection\*



- All-in-one control cabinet
- True off-grid operation w/o grid
- High-end components
- Fail-safe installation
- Easy and reliable operation
- Maintenance-free
- Highest safety level
- Detailed monitoring & datalogging
- 5 years product warranty

\*according to VDE-AR-N 4105, DIN V VDE 0126-1-1, ÖVE/ÖNORM E 8001-4-712:2009-12, G59/3, G83/2h





# SmartEnergy+ DC

## PV Battery Storage System

### The Smart Solution!

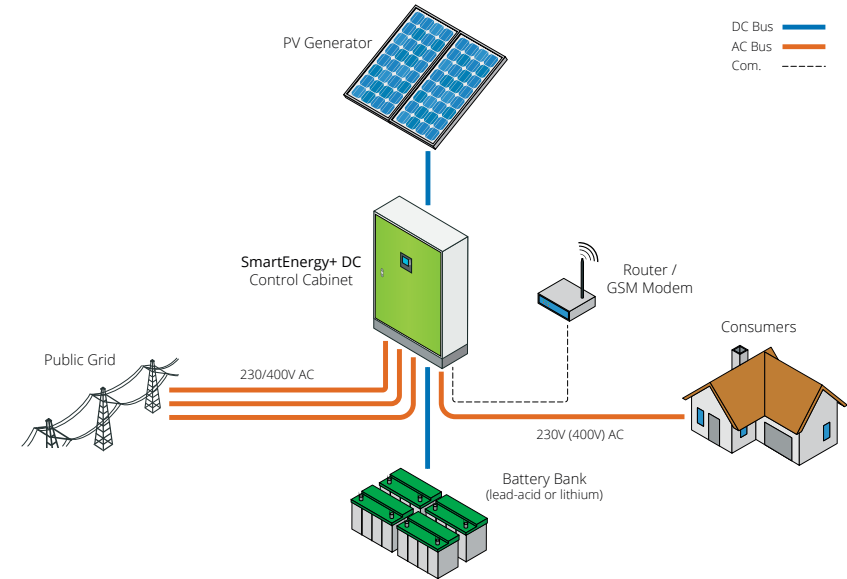
The **SmartEnergy+ DC** all-in-one storage solutions are based on the proven Victron Energy MultiPlus and Quattro inverter/charger series and Victron Energy SmartSolar/BlueSolar PV charge controllers. The PV generator is connected to the battery via the integrated MPPT charge controller. The **SmartEnergy+ DC** is installed between public grid and home network. Additional metering equipment is not required.

The **SmartEnergy+ DC** is fast and easy to install thanks to its plug'n'play design. It is compatible to traditional lead acid batteries and various lithium battery modules.

The **SmartEnergy+ DC** operates as true off-grid system in case of a blackout maintaining PV energy generation and power supply of all electrical loads.

The **SmartEnergy+** has a 3-phase mains input. For systems with only one battery inverter phase coupling ensures that the PV and battery energy is distributed to the entire local AC network. Furthermore the **SmartEnergy+ DC** is equipped with an uninterruptible bypass switch for direct power supply from the grid in case of a maintenance shutdown or a system failure.

A high-res display integrated in the cabinet front door allows extensive system monitoring, datalogging and remote access via LAN or internet.



### Technical Data

Type	SmartEnergy+						
	DC3/5 <small>NEW</small>	DC3/10 <small>NEW</small>	DC6/10 <small>NEW</small>	DC9T/10 <small>NEW</small>	DC15T/20 <small>NEW</small>	DC24T/24 <small>NEW</small>	DC30T/24 <small>NEW</small>
Inverter / Charger	VE MultiGrid 48/3000/35-50		2x VE MultiGrid 48/3000/35-50	3x VE MultiGrid 48/3000/35-50	3x VE MultiPlus 48/5000/70-100	3x VE Quattro 48/8000/110-100	3x VE Quattro 48/10000/140-100
Charge controller	VE SmartSolar MPPT 250/85-Tr	2x VE BlueSolar MPPT 150/85	2x VE SmartSolar MPPT 250/85-TR	2x VE SmartSolar MPPT 250/85-TR	4x VE SmartSolar MPPT 250/85-TR	4x VE SmartSolar MPPT 250/100-TR	
Nom. battery voltage	48V						
Cont. output power (25°C)	2.4kW - 230V AC/50Hz		4.8kW - 230V AC/50Hz	7.2kW - 400V AC/50Hz	12kW - 400V AC/50Hz	19.5kW - 400V AC/50Hz	24kW - 400V AC/50Hz
Transfer AC power (grid)	11.5kW - 230V AC/50Hz (34.5kW - 400V AC/50Hz with active bypass)						
Max. PV power*	5kWp	10kWp	10kWp	10kWp	20kWp	24kWp	
Max. PV input voltage	250V (1 MPPT)	2x 150V (2 MPPTs)	2x 250V (2 MPPTs)		4x 250V (4 MPPTs)		
Monitoring	Color display / (remote) control unit VE ColorControl GX						
Type of cabinet	IP54, wall-mounted (steel plate, powder coated) incl. wall mounting brackets or ground-mounted incl. 200mm socket kit (optional)			IP54, ground-mounted (steel plate, powder coated) incl. 200mm socket kit			
Dimensions (wxhxd) in mm	800 x1000** x300		1200 x1400*** x400			1600 x2000*** x400	
Weight	approx. 81kg	approx. 93kg	approx. 173kg	approx. 198kg	approx. 398kg	approx. 432kg	approx. 452kg

\*exceeding PV power will be limited to the given maximum PV charge current / \*\*plus 200mm height for ground-mounted version with socket / \*\*\*incl. 200mm height of socket