VIESMANN

Power storage system | **VITOCHARGE VX3**

Optimises power consumption and makes users almost completely independent of the public grid

Compact PV self-supply with reliable lithium iron phosphate batteries

Achieve greater independence from grid power and rising electricity prices: the new generation Vitocharge VX3 power storage units give homeowners an easy way to store power and use it more efficiently.

Modular photovoltaic power storage system

Given the different power consumption levels in detached and two-family houses, a simple, plannable system with flexible storage unit sizes is needed. The Vitocharge VX3 compact photovoltaic power storage system with hybrid inverter has been designed with precisely this in mind. With three

different output classes to choose from (single- and three-phase), the Vitocharge VX3 can be optimally matched to PV system outputs up to 12 kW_p. With up to three batteries (each 5 kWh), an inverter can provide a maximum usable storage capacity of 15 kWh. The new cascade function also enables flexible storage capacities of up to 75 kWh. Thanks to the modular design, installation is particularly straightforward and can be carried out by one person.

Everything from a single source for efficient self-consumption

The modular Vitocharge VX3 power storage system is at the heart of Viessmann's well thought-out energy solutions for heat, power and mobility. By giving you the means to efficiently store self-generated power, it enables you to achieve the greatest possible independence from external power supply utilities. And smooth operation is ensured, as we offer you everything from a single source – from the photovoltaic system to the charging station for your electric car. You'll only get that from Viessmann.

Invest in the future

With the Vitocharge VX3 power storage unit, you can rely on advanced technology and high efficiency thanks to intelligent optimisation software. The proven lithium iron phosphate batteries are designed for a long service life and meet the highest safety standards. This is why Viessmann offers a 10 year product guarantee on the unit once it has been connected and a 10 year cash value replacement guarantee on the battery cells. The system can also be extended if the power demand changes. And the standardised EEBUS communication interface enables variable and intelligent linking with all kinds of other energy systems for a further boost to efficiency.

Utilise the full potential of the battery storage system in conjunction with a dynamic tariff to further reduce your costs. So you benefit even when the sun is not shining.

Benefits for trade partners

+ Three in one solution: photovoltaics, battery and hybrid storage system in a single appliance
+ Straightforward installation thanks to manageable weight
+ Flexible installation position – wall mounted or floorstanding
+ Guided commissioning and service with ViGuide
+ EEBUS for integration into various energy systems
+ Simple connection of different products to form a complete system with Viessmann One Base
+ Can be used flexibly as a cascade with a storage capacity of up to 75 kWh

Benefits for users

+ Outstanding, slimline design with a depth of just 25 cm
+ Reliable and durable lithium iron phosphate cells
+ Intelligent software keeps storage capacity high and ensures high PV yields
+ 10 year product guarantee (upon connection) and 10 year cash value replacement guarantee on the battery cells
+ Attractively priced standby power function in case of a power failure (optional)
+ Integrated Viessmann Energy Management with the free ViCare app
+ Comprehensive view and control of the system with Viessmann One Base

Main components of the Vitocharge VX3

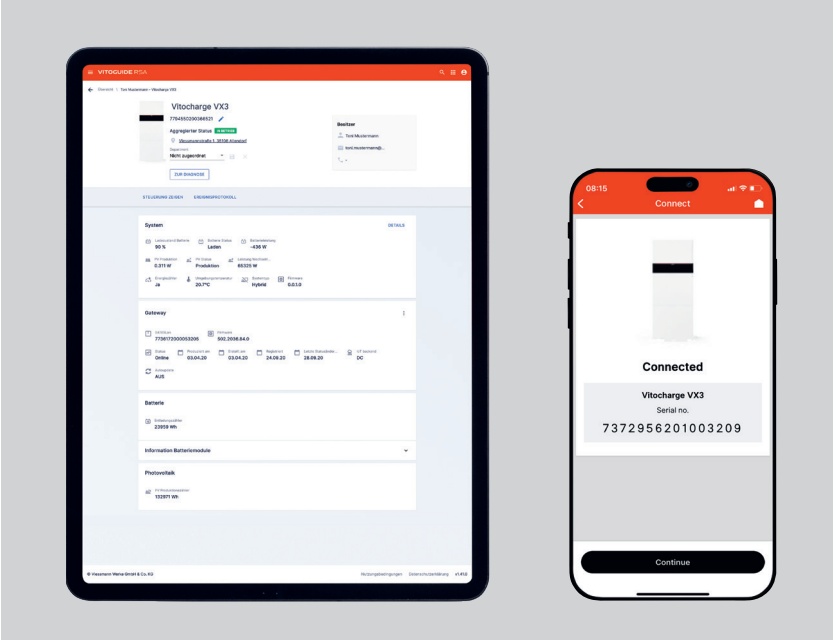
The 4.6C/6.0C/8.0C inverters have three DC inputs: two for connecting photovoltaic strings and the third either for connecting the battery units in series or for a third photovoltaic string.

We manufacture our battery modules on our own production line at our plant in France. This means we can ensure excellent quality and efficient value creation.

The following versions of the Vitocharge VX3 can be freely configured with up to five appliances:

- Vitocharge VX3, type 4.6C with 5/10/15 kWh usable (2/4/6 battery modules, type 2.5A2)
- Vitocharge VX3, type 6.0C with 5/10/15 kWh usable (2/4/6 battery modules, type 2.5A2)
- Vitocharge VX3, type 8.0C with 5/10/15 kWh usable (2/4/6 battery modules, type 2.5A2)

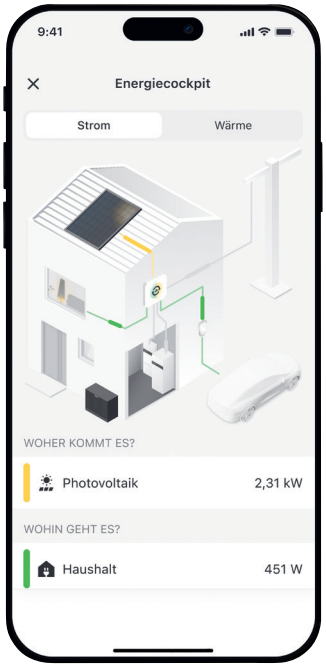
Full integration into digital services and platforms



ViGuide
Viessmann trade partners have had valuable tools at their disposal for a while now, designed to make their everyday work easier: ViGuide is the central tool for appliance commissioning, service, maintenance and remote system monitoring.

ViGuide is available for iOS and Android mobile devices, and can be used on a desktop PC. The all-in-one tool is also updated on an ongoing basis to include new features suggested by our trade partners.

Viessmann Energy Management
With the ViCare app, users of Viessmann electric and thermoelectric energy systems get a transparent energy management application. In addition to controlling the components, Energy Management also links up devices connected online to form a complete system that conserves resources and energy. Users enjoy benefits such as optimised self-consumption, forecast-based charging of the power storage unit and intelligent charging station modes for their electric car.



EEBUS and KNX connectivity for home automation
The Vitocharge VX3 can also be integrated into energy management systems and home automation applications via the integral EEBUS and KNX communication interface (optional gateway required). For example, the energy flows of the Vitocharge VX3 (from type B) and other system components can then be visualised for optimised operation.

Intelligent integration of existing PV systems

The new generation of this powerful gateway combines intelligent functionality and high flexibility for more efficiency in controlling, regulating and monitoring third party photovoltaic systems up to max. 30 kW_p.

The Solar-Log Base Vi gateway, for example, makes it possible to integrate existing photovoltaic systems from third party suppliers into Viessmann One Base as part of a modernisation project. Existing fossil-fuel heat generators can also be partially electrified, for example with an electric heating rod, to intelligently convert surplus PV electricity into heat.

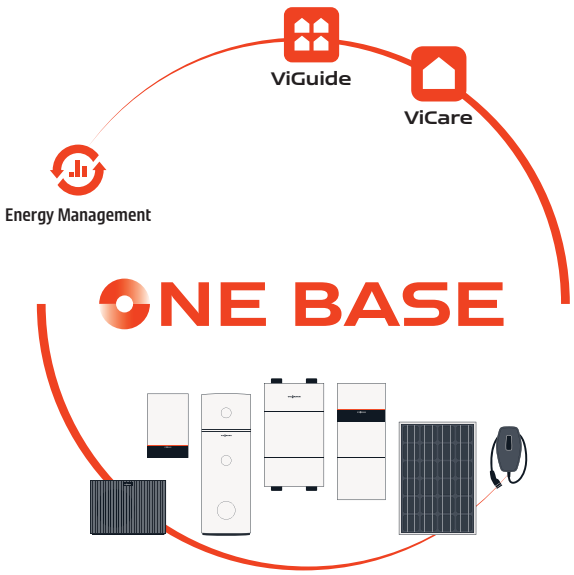
Independence even in the event of a mains failure

The backup box available as an accessory allows you to select individual consumers (e.g. light, refrigerator, network technology) that will continue to be reliably supplied with power in the event of a mains failure.

Solar-Log Base Vi

Backup box

Integrated energy systems that combine power, heat and mobility



Viessmann One Base networks digital services with complete energy systems, including heat pumps, DHW cylinders, power storage units and photovoltaic systems.

In combination with the Vitovolt photovoltaic module, the Vitocharge VX3 power storage unit and the Vitocal heat pump, homes can be supplied sustainably and efficiently with self-generated power. Users benefit from a high level of self-sufficiency thanks to the intelligent networking in the system, allowing them to reduce the amount of electricity they draw from the grid. Energy flows can be visualised and individually controlled via the free ViCare app.

The ViGuide app provides trade partners with a central digital tool for commissioning, maintenance, service and monitoring.

Configure to suit any requirement

First select under 1 the hybrid inverter (4.6C/6.0C/8.0C) depending on the PV system output.
Then select under 2 the number of battery modules according to the required storage capacity (0/5/10/15 kWh).
For a high degree of flexibility, up to five systems (maximum 75 kWh) of all output classes can be combined as required using the cascade function.

1 Vitocharge VX3 inverter: select the output class

Hybrid Inverter

Hybrid inverters	4.6C
DC input	
Number of DC inputs	3
Number of combined DC inputs (PV or battery)	1 (input C bidirectional)
Maximum PV generator output	7000 W_p
Maximum DC input voltage	750 V
Minimum input voltage	75 V
Start input voltage	100 V
DC/MPP operating voltage range	75 ... 600 V
DC/battery operating voltage range	87 ... 400 V
Maximum input current per DC input	A: 13 A / B: 13 A / C: 20 A
AC connection	
Rated output/maximum apparent power	4600 W/4600 VA
Power supply	1-phase 230 V/50 Hz
Hybrid inverter efficiency	
Maximum efficiency	approx. 97 %

Adapt to the conditions on site with a flexible corner arrangement or horizontal installation.

2 Vitocharge VX3 PV power storage unit: select the storage capacity

Vitocharge VX3	**C0**	**C5**	**C10**	**C15**
		4.6C0	4.6C5	4.6C10	4.6C15
Applications	PV inverter	Hybrid power storage unit AC power storage unit	Hybrid power storage unit AC power storage unit	Hybrid power storage unit AC power storage unit
Battery				
Battery technology	No battery included	Lithium iron phosphate	Lithium iron phosphate	Lithium iron phosphate
Usable battery capacity		5 kWh	10 kWh	15 kWh
Maximum charging/discharging power		1.92 kW	3.84 kW	5.76 kW[2]
DC rated voltage		96 V	192 V	288 V
Maximum DC current		20 A	20 A	20 A
Temperature range, 1-phase		0 ... +40 °C	0 ... +40 °C	0 ... +40 °C
Equipment/safety		Reverse polarity protection, multi stage safety concept		
Battery cell guarantee[1]		10 years (on 80 % residual capacity of the specified usable battery capacity)		
Guaranteed charge throughput in the guarantee period		100,000 Ah (corresponds to 9.6 MWh)	100,000 Ah (corresponds to 19.2 MWh)	100,000 Ah (corresponds to 28.8 MWh)
General details				
Dimensions (width x height x depth)	600 x 500 x 250 mm	600 x 1000 x 250 mm	600 x 1500 x 250 mm	600 x 2000 x 250 mm
Total weight	25 kg	101 kg	177 kg	253 kg
IEC 60529 IP rating	IP20			
Interfaces/equipment				
Energy management	Integrated (via ViCare) or external (via EEBUS)			
Prepared with fully automatic standby power function	■			
Communication interfaces	1 x LAN, WiFi, 2 x CAN			
Display/ViGuide/ViCare	3.5"/■/■			

■ Available [1] Cash value replacement guarantee [2] Discharging power limited to 4.6 kW

1 Vitocharge VX3 inverter: select the output class

Hybrid Inverter

Hybrid inverters	6.0C	8.0C
DC input		
Number of DC inputs	3	3
Number of combined DC inputs (PV or battery)	1 (input C bidirectional)	1 (input C bidirectional)
Maximum PV generator output	9000 W_p	12,000 W_p
Maximum DC input voltage	1000 V	1000 V
Minimum input voltage	85 V	85 V
Start input voltage	120 V	120 V
DC/MPP operating voltage range	85 ... 850 V	85 ... 850 V
DC/battery operating voltage range	87 ... 400 V	87 ... 400 V
Maximum input current per DC input	A: 13 A / B: 13 A / C: 20 A	A: 13 A / B: 13 A / C: 20 A
AC connection		
Rated output/maximum apparent power	6000 W/6000 VA	8000 W/8000 VA
Power supply	3-phase 400 V/50 Hz	3-phase 400 V/50 Hz
Hybrid inverter efficiency		
Maximum efficiency	approx. 97.3 %	approx. 97.3 %

2 Vitocharge VX3 PV power storage unit: select the storage capacity

Vitocharge VX3	**C0**	**C5**	**C10**	**C15**
	6.0C0 **8.0C0**	**6.0C5** **8.0C5**	**6.0C10** **8.0C10**	**6.0C15** **8.0C15**
Applications	PV inverter	Hybrid power storage unit AC power storage unit	Hybrid power storage unit AC power storage unit	Hybrid power storage unit AC power storage unit
Battery				
Battery technology	No battery included	Lithium iron phosphate	Lithium iron phosphate	Lithium iron phosphate
Usable battery capacity		5 kWh	10 kWh	15 kWh
Maximum charging/discharging power		1.92 kW	3.84 kW	5.76 kW
DC rated voltage		96 V	192 V	288 V
Maximum DC current		20 A	20 A	20 A
Ambient temperature		0 to +35 °C	0 to +35 °C	0 to +35 °C
Equipment/safety		Reverse polarity protection, multi stage safety concept		
Battery cell guarantee[1]		10 years (on 80 % residual capacity of the specified usable battery capacity)		
Guaranteed charge throughput in the guarantee period		125,000 Ah (corresponds to 12 MWh)	125,000 Ah (corresponds to 24 MWh)	125,000 Ah (corresponds to 36 MWh)
General details				
Dimensions (width x height x depth)	600 x 500 x 250 mm	600 x 1000 x 250 mm	600 x 1500 x 250 mm	600 x 2000 x 250 mm
Total weight	27 kg	103 kg	179 kg	255 kg
IEC 60529 IP rating	IP20			
Interfaces/equipment				
Energy management	Integrated (via ViCare) or external (via EEBUS)			
Prepared with fully automatic standby power function	■			
Communication interfaces	1 x LAN, WiFi, 2 x CAN			
Display/ViGuide/ViCare	3.5"/■/■			

■ Available [1] Cash value replacement guarantee

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Your trade partner