batterX® COM Series

Energy storage redefined

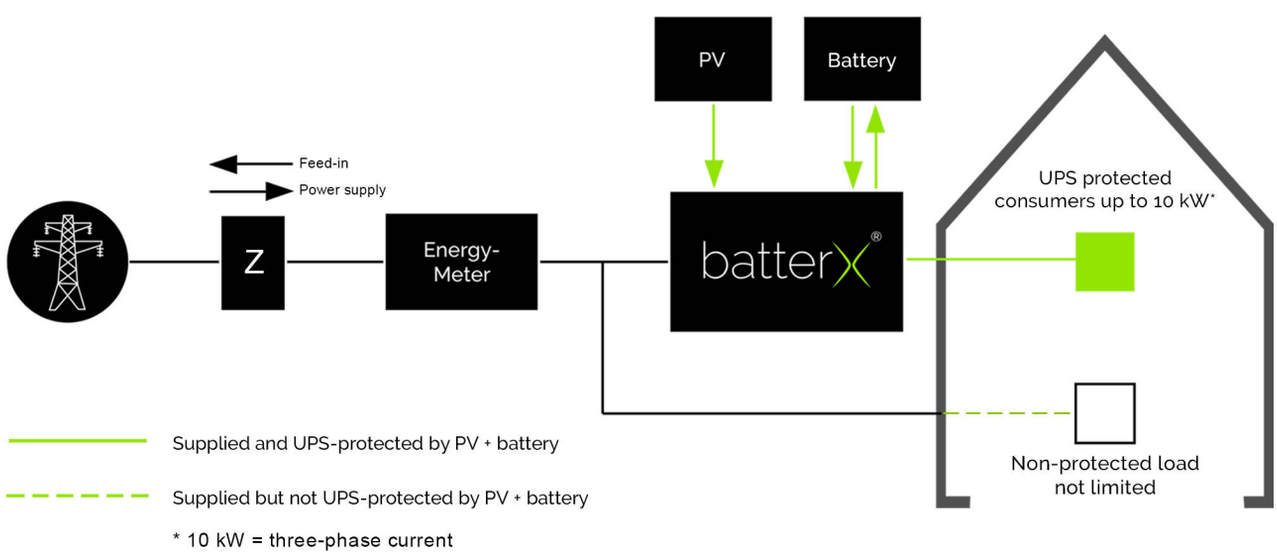
- Real UPS function with changeover time ≤ 9ms
- Full 10kW UPS consumer power
- Feed-in and off-grid capability
- Output with true three-phase current or single-phase consumers (3x 3,3kW)
- "cliX" module for quick installation "by click"
- Integrated: Bypass, FI type B, DC lightning protection type 2
- Black start capability (Sunrise wake-up)
- Phase monitoring at the feed point selectable (single phases or phase sum)

"liveX" Monitoring&Energy Optimization System

- Adjustable time-delayed charging for maximum utilization of PV production at peak times
- Adjustable emergency power reserve
- Active climate protection monitoring: Ecological Footprint live
- Full functionality even when the data connection is lost
- Open source API with HTTP protocol (JSON format) for Integration into intelligent energy management systems
- Installer portal for online monitoring & diagnosis of all sold systems

Alternatively available with 99% recyclable carbon batteries!

FUNCTIONAL DIAGRAM

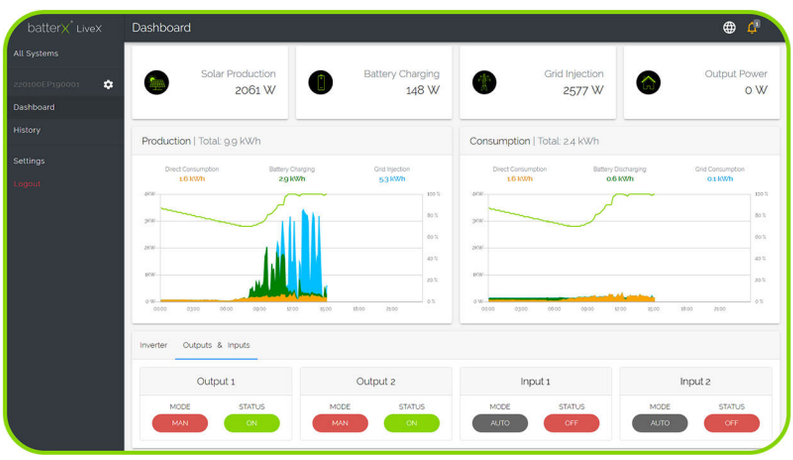


www.batterx.io

liveX Home

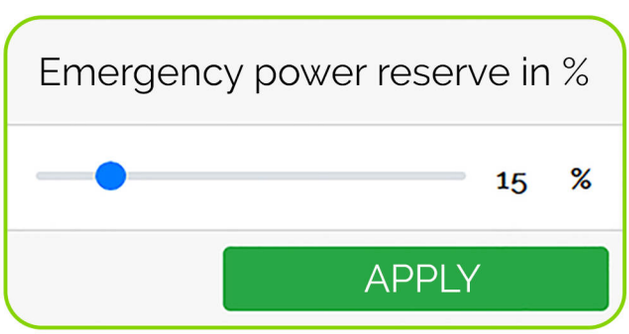
developed by batterX® Open source API

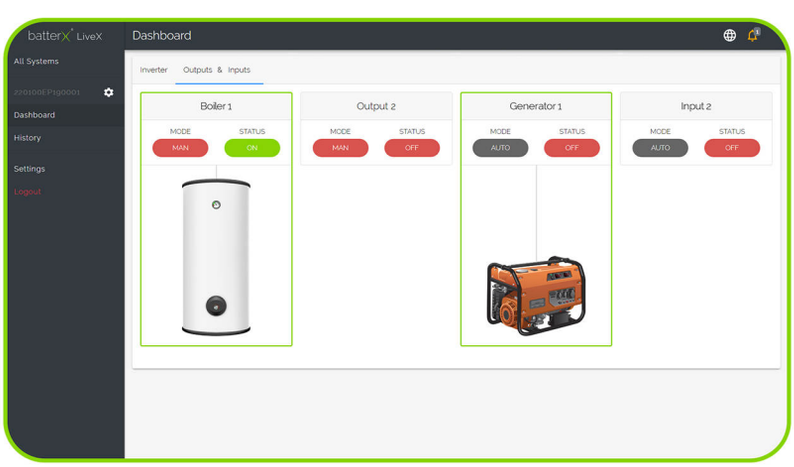
MONITORING- AND CONTROLLING TOOL
liveX is compatible with all web browsers, computers and mobile devices.



Live dashboard with energy flow diagram and display of all relevant parameters for the areas: Photovoltaics, battery system, grid and consumers.

Configurable energy management. Select the Emergency power reserve and daily use of the battery by yourself, by simple adjustment of the slide controller in the Dashboard. You can use this function to define by yourself an area in the battery, wich guarantees you an emergency power reserve 365 days a year. Thus you guarantee your security of supply, even during longer periods of bad weather.





By means of an intelligent energy management system, programmable relay contacts can be used to control consumers such as a heat pump or a heating rod. This allows excess energy, which would otherwise be fed into the public grid, to be used intelligently in the house.

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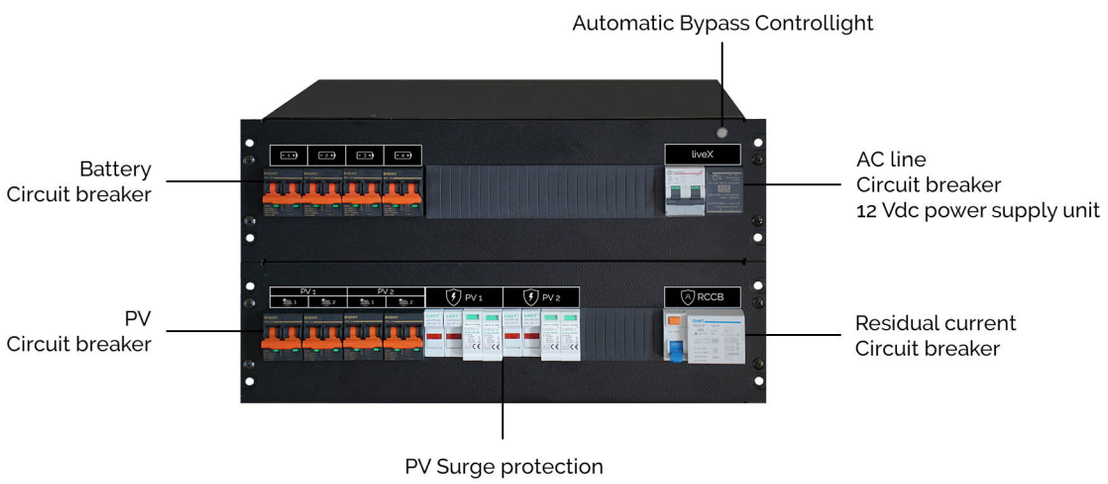
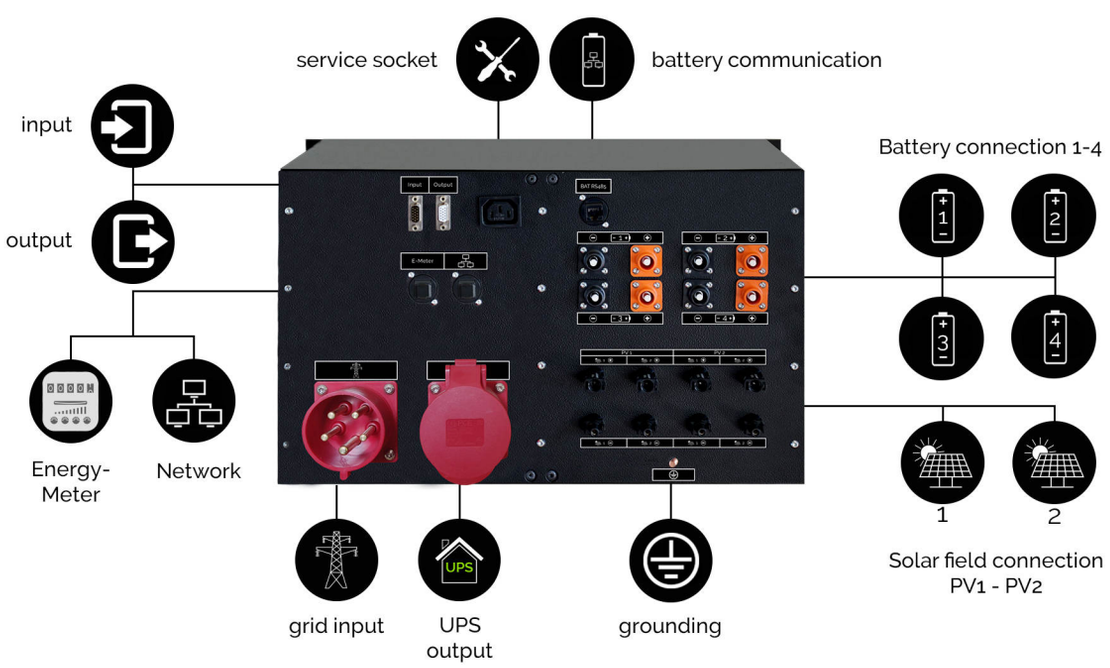
cliX Module

developed by batterX®

Protection



Connections



SPECIFICATIONS

System shortcuts	nominal capacity	Inverter	Maximum PV power	Numbers of Battery modules	Maximum charging power	On-grid output power*	Maximum UPS mode*
batterX COM							
h10R-28	28	h10	15 kWp	8	9,6 kW	3 x 3,33 kW	3 x 3,33 kW
h10R-42	42	h10	15 kWp	12	9,6 kW	3 x 3,33 kW	3 x 3,33 kW
h10R-56	56	h10	15 kWp	16	9,6 kW	3 x 3,33 kW	3 x 3,33 kW

* three-phase current

Hybrid-Inverter	h10
On-grid & UPS Output power	max. 10 kW
Max. PV Power	15 kWp
Dimensions (HxWxD) mm / Weight kg	622 x 500 x 167,5 mm / 45 kg
PV-Input (DC)	
Voltage range - MPPT	400 - 800 Vdc
Voc max.	900 Vdc
Numbers of MPPT / max. current	2 x 18,6 A
Output (AC)	
Phases	three-phase
Nominal current	14,5 A per phase
UPS-switching time	< 10 milliseconds
Features	
Scope of delivery	8 relay contacts (4 in/4 out), FI Typ B 30 mA, DC surge protection type 2, automatic Bypass, energy meter, generator contact, PV-on/off-switch, optional: AC surge protection type 2

Battery module	
Depth of discharge (DOD)	usable cyclical: 90%, usable UPS: 98%
Cyclability	8.000 cycles *(Up to 8.000 cycles depending on C Rate and DoD)*
Charge / discharging current	37 A in on-grid mode, 74 A im UPS mode
Dimensions (HxWxD) mm / Weight kg	132 x 442 x 420 mm / 32 kg
Working temperature	5 - 30 °C

19" Rack Dimensions (HxWxD) mm / Weight kg	
All-in-one-rack	1.958 x 600 x 600 mm (39U) / 65 kg
Small battery rack	1.163 x 600 x 600 mm (22U) / 45 kg

Certifications & Standards	
CE marking & EC conformity	EMC directive 2014/30/EU (DIN EN 61000-6-2:2005 DIN EN 61000-6-3:2007 Low-voltage directive 2014/35/EU (DIN EN 62040-1:2008)
Battery safety	IEC 62619:2014; UN38.3; TÜV Süd
UPS mode	DIN EN 62109-2:2011
Grid codes	VDE-AR-N-4105:2018; CEI 0-21:2016 (IT)

Technical data subject to change without notice (05/2019)