BENNING

UPS Energy Storage Systems

Excellent Technology, Efficiency and Quality



A user-friendly, menu-driven graphic touch display is built into the front of the cabinet to operate the entire system



ENERGY STORAGE compact

All-in-one solution at just 80 x 80 cm

- Storage and UPS function
- Ideal for SMEs and Businesses
- Load optimisation
- Easy installation and handling

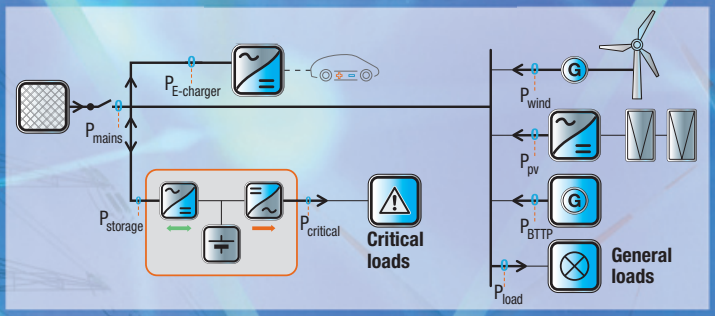
Reliability of supply

- Uninterruptible power supply
- Formation of island networks
- Black start capability
- Extended runtime with PV

Load optimisation

- Avoiding grid expansion
- Peak shaving and optimised energy cost savings
- Integrated optimisation of all loads
- E-mobility charging infrastructure

Multiuse



Optimisation of own consumption

- PV systems
- Wind turbines
- Biogas plants
- Fuel cells

etc.



ENERTRONIC modular Storage, 19" module

Technical data – ENERGY STORAGE compact

System configuration	
Number of power modules	2 pieces
Output power per module at cos φ = 1.0	20 kW
Dimensions of cabinet (W x D x H)	800 x 800 x 2 000 mm
Weight of cabinet incl. modules and batteries	approx. 750 kg (with typical options)
Total energy storage output rating	40 kW
Number of battery modules	12 pieces
Total capacity of the energy storage system	25 kWh
Technical data of power conversion modules	
Input voltage	380 V / 400 V / 415 V ±15% 3ph + N
THDi	< 3%
Power factor AC input	≥ 0.99
Output voltage	380 V / 400 V / 415 V ±1%
Output frequency	50 Hz ±0.1%
Output THD factor (THDu)	< 2% (linear load)
Permissible unbalanced load	100%
Overload without mains	150% for 1 min, 125% for 10 min
Short-circuit capability without mains	≥ 3x In
Crest factor	3:1
Overload at the bypass	1000% for 100 ms, 150% for 10 min, 125% continuous
Radio interference suppression	C2 (EN 62040-2)
Noise level according to DIN 45630	≤ 65 dB(A)
Ambient temperature	0 – 40 °C
Relative humidity	max. 95% (non-condensing)
Surge category	III

Technical data of the battery modules	
Module capacity	2.21 kWh
Cell technology	LMO
Cycles	11 000 (70% SoH at 100% DoD)
60 seconds C-rate (discharging)	6 C
Continuous C-rate (discharging)	4 C
Continuous C-rate (charging)	2.5 C
Cooling	active air cooling
Interfaces	
SNMP (MIB: RFC1628 customer-specific expandable), Ethernet (TCP/IP: IPv4, IPv6), USB (USB 2.0), Modbus, web server (supported protocols: http / https)	

ENERGY STORAGE compact

Hybrid UPS energy storage system with on-board EMS

- **All-in-one solution on a footprint of just 80 x 80 cm**
- **2 UPS modules with 20 kW power each**
- **20 kWh or 25 kWh battery capacity**
- **Safe UPS operation (VFI-SS-111)**
- **Fast peak load capping with high performance**
- **Easy installation with 400 V connection cable from above**
- **VDE-AR-N 4105 / 4110**
- **EN 50549-1 / -2**
- **TOR A / B**
- **EN 62040-1 / -2 / -3 / -4**

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BENNING

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