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FullSet Extreme energy storage and management system data sheet

FullSet Extreme is an industrial, high-voltage energy storage system based on durable lithium-ion cells.

It guarantees stability in the operation of your business uninterrupted access to energy, even in the event of blackout, economy - the possibility of reducing the power ordered (thanks to the reduction of current peaks) and energy independence using up to 100% of the resources produced by the PV installation.



FullSet Monolith 265.50h

FullSet is a complete system: energy storage + hybrid inverter

Why choose FullSet?

FULLSET



Durability

≥8000 cycles of charge and discharge; more than 20 years of service under standard conditions



The products meet European safety standards and are certified

Safety



Up to 10 years warranty

Warranty

D BMS

Battery management system that controls the efficiency of the device



Possibility to expand the system with additional energy storages or inverters) Off grid

Use energy during a power failure

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High-voltage energy storage system

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FullSet Monolith 265.50h 265 kWh / 50 kW



Technical specification of 265 kWh energy storage

Nominal energy	265 kWh
Dimensions (height x width x depth)	2000 mm x 1800 mm x 1180 mm
Estimated weight	~3000 kg
Output voltage range	500 VDC ÷ 750 VDC
Maximum discharge current @ 25°C	150 A
Maximum charge current @ 25°C	150 A
Certifications	UN38.3; CE
Operating temperature range	0°C +55°C
Recommended temperature	25°C
Communication interface ¹	CAN Bus, Modbus TCP
IP class	20IP
High-current connection between battery blocks	Wire connection
Cycle life	≥8000²
Level of discharge (DoD)	80%
Battery chemistry	Li-ion NMC
Installation	In a closed facility
Warranty	Up to 10 years

¹ Depending on customer needs, it is possible to order CAN Bus, Modbus RTU and Modbus TCP simultaneously. CAN bus communication is adaptable according to customer requirements.

² At DoD=100%, the number of cycles is \geq 6000.

The control system of the energy storage system does not need an external power supply.

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Technical specifications of **50 kW hybrid inverter**

Battery Input Data Li-lon Battery Type 200 V~700 V Battery Voltage Range 50 A + 50 A Max. Charging Current Max. Discharging Current 50 A + 50 A Number of battery input 2 Charging Curve 3 Stages / Equalization Charging Strategy for Li-Ion Battery Self-adaption to BMS PV String Input Data Max. DC Input Power 65 000 W 1000 V Max. DC Input Voltage Start-up Voltage 160 V MPPT Range 200 V-850 V 150 V Min. DC Input Voltage Full Load DC Voltage Range 450 V-850 V Rated DC Input Voltage 625 V **PV Input Current** 36 A + 36 A + 36A + 36 A Max. PV ISC 50 A + 50 A + 50 A + 50 A Number of MPPT / Strings per MPPT 4/2 + 2 + 2 + 2AC Output Data 50 000 W Rated AC Output and UPS Power Max. AC Output Power 55 000 W AC Output Rated Current 75,8 A Max. AC Current 83,3 A Max. Continuous AC Passthrough 100 A Peak Power (off grid) 2 time of rated power, 10 S Generator input / Smart load / AC couple current [A] 75,8 / *180 / 75,8 Power Factor 0.8 leading to 0.8 lagging **Output Frequency and Voltage** 50/60 Hz; 3L/N/PE 220/380, 230/400 Vac Three Phase Grid Type DC injection current [mA] <0.5%1n Efficiency Max. Efficiency 97,6% **Euro Efficiency** 97,0%

99,9%

MPPT Efficiency

Technical specifications of 50 kW hybrid inverter

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Protection	
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection
Output Over Voltage Protection	DC Type II/AC Type III
Certifications and Standards	
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Operating Temperature Range	-45°C~60°C, >45°C derating
Cooling	smart cooling
Noise (dB)	<45 dB
Communication with BMS	RS485; CAN
Weight	60,0 kg
Size (W x H x D)	560,5 mm x 837,0 mm x 319,0 mm
Protection Degree	IP65