



Amber Grid 233

Compact energy storage liquid-cooled



An All In One unit for commercial and industrial applications with full functionality of containerised energy storage. The integrated BMS and proprietary EMS allow full control of operating parameters, self-diagnosis, real-time reporting and real-time readings from within the application (Real Time Monitor).

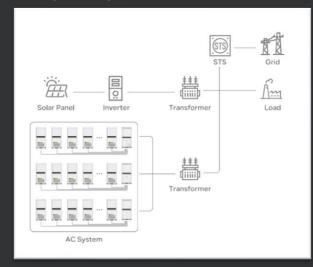
Battery module

Liquid cooling module

PCS module

Main control unit

System layout



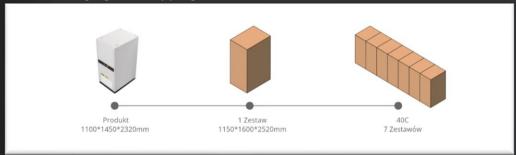
Compact chassis: combines an all-in-one design providing high power, requiring little space and offering easy transport and assembly.

Safety and reliability: comprehensive battery monitoring, multi-level failure and fire prevention, best cooling system and proactive battery management for maximum safety and reliability.

High performance: a battery management system with high-performance liquid cooling, adapted to extreme conditions, ensures battery life and performance at the highest level.

Functionality and maintenance: integrated full EMS for proactive operation, with ongoing free updates, enables control and management of large amounts of data, price arbitrage, optimisation of energy consumption and cooperation with RES installations. ongoing reporting and remote service monitoring ensure continuous operation.

Packaging and shipping details







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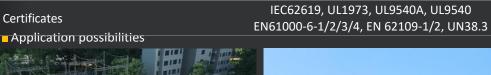
Cell type	_{LiFePO4} 3.2 V / 280 Ah
Nominal volume	233 kWh
Nominal voltage	832 V
Operating voltage range	761÷ 923 _{VDC}
Depth of discharge (DoD)	80%
Lifespan	8000 cycles
Charge/discharge rate	≤0,5C
Scalability	4 modules per section, max. 932 kWh
Cooling type	Liquid cooling
Type of converter	PCS
Fire protection system	Aerosol extinguishing

AC output

Rated AC output power	125 kW
Maximum AC output power	150 kVA
Rated output voltage	400 _{VAC}
Output voltage range	-15%÷ 10% (adjustable)
Rated mains frequency	50/60 Hz
Maximum output current	182 A
Adjustable power factor	>0,99
THDi	< 3%

General parameters

Dimensions (W x D x H)	1100x1450x2320 mm / 43x57x91.3 inches
Total weight	2950 kg / 6503 lbs
Working height	2000 m / 6561 ft
Noise level at 1 m	< 75 dB(A)
Degree of protection	IP54
Permissible operating temperature	-20°C÷ 55°C
	-20°C÷ 30°C
Storage conditions	Up to 95% relative humidity, non-condensing
	Initial SoC: 50%
Systems	BMS, EMS
Communication	CAN, RS485, Wi-Fi, LTE
Warranty on cells	10 years, extension payable from 11 to 15 years.
Device warranty	4 years included extension payable from 5th to 10th









years

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