

TECHNICAL DATASHEET

Mobile Energy Storage

SYSTEM IN A TRAILER // COMMERCIAL USE // INDUSTRIAL USE // UTILITY SCALE // OFF-GRID

// HYBRID

The system consists of a LiFePO₄ energy storage unit, a three-phase ESS inverter, an integrated energy management system, and safety systems. Energy can be drawn from a PV installation, the power grid, or a power generator.

- ✓ Mobility: complete system in a trailer up to 1.5 t GVW.
- ✓ Automatic energy management (EMS/ BMS).
- ✓ Compatible with PV, grid and generator.
- ✓ Integrated fire protection, heating, and ventilation system.
- ✓ Ability to power receivers and charge electric vehicles.
- ✓ Ready for operation in low temperatures.



FEATURES



HIGH POWER



ON/OFF GRID



SMART MONITORING



HIGH CAPACITY



SOLAR STORAGE



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MODEL	10KW/20KWH	20KW/40KWH	40KW/40KWH
ENERGY STORAGE			
Cell Technology	LiFePO4		
Total Capacity	50Ah		
Nominal Voltage	409,6V	2 x 409,6V	2 x 409,6V
Total Energy	20,4kWh	2 x 20,4kWh	2 x 20,4kWh
Rated Charge/ Discharge Current	30A, 0.6C		
Design Cycle Life	6,000, 0.5C at 25 °C, 80% DOD, 80% SOH		
Operating Temperature	Charging Temperature: -5°C ~ 55°C/5°F ~ 131°F Discharging Temperature: -15°C ~ 55°C/5°F ~ 131°F		
Self-Discharge Rate of Module	≤2% per month, at 25°C/77°F		
Ingress Protection	IP55, in stacked up state		
Communication	CAN / RS485 / WiFi		
Certificates & Standards	IEC 62619/EN 61000-6-1 & EN 61000-6-3/UN38.3/RoHS, REACH		
Trailer load capacity [kg]	913	913	913
AC output power (continuous)	10kW	20kW	2 x 20kW
AC output power (peak)	11kW	22kW	2 x 22kW
Frequency	50Hz		
Max. PV input voltage	1,000V		
Battery voltage range	150V - 600V	160V - 950V	160V - 950V
EV charger power	4.1kW to 22kW		
EV connector type	Type 2 Socket with Shutter		
Inputs	PV / GRID / Generator		
Outputs	AC / BACKUP		
Trailer dimensions (L x W x H) [mm]	4,630 x 1,960 x 2,410mm	4,630 x 1,960 x 2,410mm	4,630 x 1,960 x 2,410mm
Permissible total weight [kg]	1,500kg	1,500kg	1,500kg
Fire protection system / HVAC	Yes		

MODEL	40KW/60KWH	40KW/80KWH	40KW/100KWH
ENERGY STORAGE			
Cell Technology	LiFePO4		
Total Capacity	50Ah		
Nominal Voltage	2 x 614,4V	4 x 409,6V	4 x 512V
Total Energy	2 x 30,7kWh	4 x 20,4kWh	4 x 25,6kWh
Rated Charge/ Discharge Current	30A, 0.6C		
Design Cycle Life	6,000, 0.5C at 25 °C, 80% DOD, 80% SOH		
Operating Temperature	Charging Temperature: -5°C ~ 55°C/5°F ~ 131°F Discharging Temperature: -15°C ~ 55°C/5°F ~ 131°F		
Self-Discharge Rate of Module	≤2% per month, at 25°C/77°F		
Ingress Protection	IP55, in stacked up state		
Communication	CAN / RS485 / WiFi		
Certificates & Standards	IEC 62619/EN 61000-6-1 & EN 61000-6-3/UN38.3/RoHS, REACH		
Trailer load capacity [kg]	913	1,388	1,506
AC output power (continuous)	2 x 20kW	4 x 10kW	4 x 10kW
AC output power (peak)	2 x 22kW	4 x 11kW	4 x 11kW
Frequency	50Hz		
Max. PV input voltage	1,000V		
Battery voltage range	160V - 950V	150V - 600V	150V - 600V
EV charger power	4.1kW to 22kW		
EV connector type	Type 2 Socket with Shutter		
Inputs	PV / GRID / Generator		
Outputs	AC / BACKUP		
Trailer dimensions (L x W x H) [mm]	4,630 x 1,960 x 2,410mm	4,060 x 1,750 x 2,060mm	4,060 x 1,750 x 2,060mm
Permissible total weight [kg]	1,500kg	2,000kg	2,000kg
Fire protection system / HVAC	Yes		

NOTES

Available operating modes: · ON-GRID – grid connection, optimization of own consumption. · OFF-GRID – island operation without grid access. · BACKUP – automatic switchover in the event of a power failure. · PV priority / Power supply priority / Battery priority. · Forced charging and discharging (time schedule). Safety system: · Advanced BMS system. · Integrated fire detection and extinguishing system. · Overcurrent and overvoltage protection. · Temperature monitoring and active ventilation. · Remote monitoring (WiFi / LAN / RS485 / CAN).