

Solition Mega Five

Technical data sheet

Applications



Commercial and industrial applications



Utilities



Renewable energy



Agriculture



E-mobility



Converter



or Skid available

Technical characteristics and data

Battery system	Solition Mega Five (Liquid cooled)
Battery technology	LiFePO ₄ (LFP)
Storage capacity	5015 kWh
C-rate (charging/discharging)	0.5C / 0.5C
Battery configuration	6 x 835,2 kWh
BMS	With mains DC-switch and protection for over and under voltage, over current, temperature, SoC, system voltage, string voltage, temperature alarms
Master BMS	LCD touch screen with graphical interface
Certification batteries*	Modules and cells: UN38.3 Cells: GB/T36276, UL1973, UL1642, UL9540A, IEC62619

Converter	
Inverter type	Bi-directional four quadrant
AC power	Up to 1725kW at 690V
Scalability	In increments of 215kW at 690V
AC voltage	690V
AC grid current	1612A
AC frequency	50 Hz (49.5 Hz ~ 50.5 Hz) or 60 Hz (59.5 Hz ~ 60.5 Hz)
Cos. Phi	0.1 ~ 1 leading or lagging
Peak efficiency	99%
Output THD	≤ 3 %
Protection	Min./max. AC voltage, frequency, battery voltage, max. power, temperature, overcharging, overdischarging
DC voltage range	1070 ~ 1500 V
Certification converter and container*	ETL listed (conforming to UL1714, UL1741SA, UL9540, CPUC Rule 21, CSA 22,2), CE, G99, IEC62109, IEC62040, EN50549, UNE206007-1, UNE 217002, UE 2016/631, AS/NZS 4777.2:2020, NRS 097-2-1, Complies to AS5139, AS4487-2013, AS61000
Off-grid	Data available on request

* The list is constantly updated, for updated information please contact Exide Technologies.

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Technical characteristics and data (continued)

System	Solition Mega Five (Liquid cooled)
Housing	20-foot high-cube container
Dimensions (incl. HVAC; L x W x H)	6058 × 2438 × 2896 mm
Weight	~ 45 tons
Auxiliary power	AC 380/400V, 50Hz (optional 480V, 60Hz)
External communication	Modbus TCP/IP
Internet	4G connection
Isolation	Via optional transformer
Nominal round trip efficiency	≥94%
Scalability	Multiple containers can be combined as one system.

Environmental conditions	
Cooling	Liquid cooling/heating system (60 kW cooling, 16 kW heating) at full power
Operation temperature	-30°C to +55°C
Noise at full power	89.3 dBA, with optional silencer, reduced to 68 dBA
Operating altitude	≤4000 m (derating above 3000 m)
Space requirements	At least 2.5m around the container must be freely available for service access*

* Ensure adherence to local laws and regulations

Safety	
Enclosure/Housing	IP55, anti-corrosion, fireproof, waterproof, dustproof, UV-resistant
Fire extinguisher system	Water spray, aerosol (optional), gas/smoke/temp sensors
Fire extinguisher controller	"Stand alone with battery backup, heat and smoke detectors and external alarm signals"
Explosion prevention	Explosion hatches - specially designed covers to relieve pressure safely in the event of an explosion

Warranty conditions	
Capacity guarantee*	10 years or 6000 cycles with 70% EoL, whatever comes first; conditions: max. 0.5C/0.5C, 15-28°C, 90% DoD
System guarantee*	5 years

* For complete information, please refer to Exide Technologies' warranty conditions.