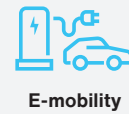
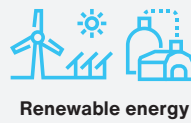


Solution Mega Five

Technical data sheet

Applications



Technical characteristics and data

Battery system	Solution Mega Five (Liquid cooled)
Battery technology	LiFePO ₄ (LFP)
Storage capacity	5,015 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 1,725 kW at 690V _{AC} with one converter or up to 2,500 kW at 690V _{AC} with two converters or a skid configuration
Scalability	In increments of 215kW at 690V
AC voltage	690V
AC grid current	1,612A
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.

Solition Mega Five

Technical data sheet

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)	6,058 × 2,438 × 2,896 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*	Standard 10 years with 70% EoL; with an Exide OEM contract, extendable up to 20 years at 60% EoL or 10,000 cycles, whichever comes first.
System guarantee*	Standard: 5 years, extendable up to 10 years

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