

Solition Mega Three / Five

Technical data sheet



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Applications



Commercial and industrial applications



Agriculture



E-mobility



Renewable energy



Utilities

Technical characteristics and data



Battery system	Solition Mega Three (Liquid cooled)	Solition Mega Five (Liquid cooled)
Battery technology	LiFePO ₄ (LFP)	
Storage capacity	up to 3,340 kWh	up to 5,015 kWh
C-rate (charging/discharging)	0.5C / 0.5C	
Battery configuration	4 x 835.2 kWh	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	
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 690VAC with one converter or up to 2,500 kW at 690V _{AC} with two converters or a skid configuration 400V _{AC} also available, contact your Exide representative
Scalability	In increments of 160kW at 400V
AC voltage	690V / 400V
AC grid current	690V = 1,612A 400V = 924A
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 for 400V _{AC} = 720 - 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, VDE4110; UL9540A LSFT
Off-grid	Data available on request

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

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Technical characteristics and data (continued)

System	Solition Mega Three (Liquid cooled)	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	~33 tons	~ 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,
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.*

* UL9540A LSFT passed, project specific requirements possible.

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
System guarantee*	Standard: 5 years, extendable up to 10 years

* For full information please see our warranty conditions.