

Solition Mega series

Technical data sheet

Applications



Commercial and industrial applications



Agriculture



E-mobility



Renewable energy



Biogas plant



Utilities

Technical characteristics and data



Battery system	Solition Mega Zero Five (Air cooled)	Solition Mega One (Air cooled)	Solition Mega Three (Liquid cooled)
Battery technology	LiFePO ₄ (LFP)		
Storage capacity	up to 552kWh	up to 1104kWh	up to 3440kWh
C-rate (charging/discharging)	Max 1C / 1C, typical 0.5C / 1C		0.5C / 0.5C
Battery configuration	up to 4 x 138kWh racks with 15 modules each	up to 8 x 138kWh racks with 15 modules each	6x,8x or 10 x 344kWh racks with 8 modules each
Scalability	in increments of 138kWh		in increments of 344kWh
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			
Converter	Max. 1 converter rack	Max. 2 converter rack	Max. 1 converter unit per container
Inverter type	Bi-directional four quadrant		
AC power	Up to 500kW (250kW) at 400V	Up to 1000kW (500kW) at 400V	Up to 1725kW at 690V
Scalability	In increments of 62.5 kW		In increments of 215kW at 690V
AC voltage	400 V ± 10 % (3-phase + PE) (with additional transformer: 480 V ± 10 %)		690 V - 15 % +10 % (3-phase + PE)
AC grid current	Max. 760 A	Max. 1520 A	Max. 1612 A
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	98.2 %		99%
Output THD	≤ 3 %		
Protection	Min./max. AC voltage, frequency, battery voltage, max. power, temperature, overcharging, overdischarging		
DC voltage range	600 V ~ 900 V		1070 V ~ 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 us.