



COMMERCIAL & INDUSTRIAL SERIES

5.7 / 8.1 kWh modular
expandable to MWhs



Off-grid ability

Peak shaving

Backup function

Demand charge management

24/7 Monitoring

STORION Alpha-CS



Model		Alpha-CS
System Specification		
Nominal AC Power	250 kW	500 kW
Max. AC Power	275 kVA	550 kVA
Battery Chemistry	LFP (LiFePO4)	LFP (LiFePO4)
Application Environment	Indoor (Rack) / Outdoor (Container)	
Warranty	3 Year Product Warranty, 10 Year Performance Warranty	
Inverter Technical Specification		
Max. AC Current	397 A	882 A
Nominal AC Voltage	400 V (3-phase 4 lines)	360 V (3-phase 3 lines)
AC Voltage Range	310 ~ 450 V	315 ~ 396 V
Phase	Three Phase	Three Phase
Rated Frequency	50 / 60 Hz	50 / 60 Hz
Power Factor at Nominal Power	> 0.99	> 0.99
Power Factor Range	0.9 (lagging) ~ 0.9 (leading)	1 (lagging) ~ 1 (leading)
Battery Voltage Range	500 ~ 830 V	520 ~ 850 V
Max. Charging/Discharging Current	550 A	1077 A
Max. Charging/Discharging Power	275 kW	560 kW
Backup	UPS (With ATS Module)	UPS (With ATS Module)
Dimension (W x D x H)	1006 × 2034 × 850 mm	1005 x 1915 x 835 mm
Weight	1600 kg	800 kg
Certificate	CE, G99, SAA	CE, IEC 61727, IEC 62116, G99, BDEW, SGSF
Battery Technical Specification		
Module Model	M48112-S	M38210-S
Module Nominal Voltage	51.2 V	38.4 V
Module Weight	65 kg	62 kg
Cycle Life	≥ 6000	≥ 6000
Module Capacity	5.7 kWh	8.1 kWh
Operating Temperature Range	-10 °C ~ 50 °C*	-10 °C ~ 50 °C*
Module Dimension (W x D x H)	450 x 580 x 165 mm	326 x 560 x 222 mm
Max. Charging/Discharging Current	112 A (1C)	105 A (0.5C)
High Voltage Control Box Technical Specification		
BMU Model	HV900112 (TOP BMU required with more than one cluster)	HV900105 (TOP BMU required with more than one cluster)
DC Voltage Range	200 ~ 900 V	200 ~ 900 V
Nominal Output Current	112 A	105 A
Battery Modules Connection	6~13 M48112-S in series in one cluster, clusters in parallel connection	8~20 M38210-S in series in one cluster, clusters in parallel connection

*When the temperature is below 0 °C or above 40 °C, the performance will be limited.



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