

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, G59, SAA	CE, IEC 61727, IEC 62116, G59, 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	332 x 570 x 223 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)		
DC Voltage Range	200 ~ 900 V		
Nominal Output Current	112 A		
Battery Modules Connection	11~15 M48112-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.



Headquarter: Alpha ESS Co., Ltd.
 ☎ +86 (0) 513 8060 6891
 ✉ info@alpha-ess.com
 🌐 www.alpha-ess.com
 📍 JiuHua Road 888, Nantong High-Tech Industrial Development Zone, Nantong City, 226300

Alpha ESS Suzhou Co., Ltd.
 ☎ +86 (0) 512 6828 7609
 ✉ info@alpha-ess.com
 🌐 www.alpha-ess.com
 📍 Level 15,SIPC 158 Wangdun Road SIP Suzhou, 215028

Australia: Alpha ESS Australia Pty. Ltd.
 ☎ +61 (0) 402 500 520 (Sales)
 +61 1300 968 933 (Technical Support)
 ✉ australia@alpha-ess.com
 🌐 www.alpha-ess.com.au
 📍 Suite 1, Level 1, 530 Botany Road, Alexandria, NSW, 2015

Germany: Alpha ESS Europe GmbH
 ☎ +49 (0) 6103 / 459 160-1
 ✉ europe@alpha-ess.de
 🌐 www.alpha-ess.de
 📍 Paul-Ehrlich-Straße 1a, D-63225 Langen, Hessen

Alpha ESS Italy S.r.l.
 ☎ +39 (0) 599 239 50
 ✉ info@alpha-ess.it
 🌐 www.alpha-ess.it
 📍 Via Loda,17-41013 Castelfranco Emilia (MO)

Alpha ESS Korea Co., Ltd
 ☎ +82 64 721 2004
 ✉ korea@alpha-ess.com
 📍 2F, 19-4, Nohyeong 11-gil, Jeju-si, Jeju-do, Republic of Korea