

● YOUR
● SMART
● ENERGY



STORION Alpha-CS

COMMERCIAL &
INDUSTRIAL SERIES

CAPACITY ▼

5.7 / 8.1 kWh modular
expandable to MWhs



- UPS function
- Off-grid ability
- Balancing Mechanism
- Load shifting
- Demand charge
- 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) | 400 V (3-phase) | |
| AC Voltage Range | 310 ~ 450 V | 310 ~ 450 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 | 630 ~ 900 VDC | 630 ~ 900 VDC | |
| 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 | ≥ 10000 | ≥ 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) | 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 | 14 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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