

YOUR
SMART
ENERGY



AlphaCS-H20-DC-LC

AlphaCS-H20-DC-LC
1500 V Liquid-Cooling System

CAPACITY

Battery Module: 46.5 kWh
System: 3,727.3 kWh



KEY FEATURES

- Flexible Site Layout
- High Energy Density
- External Maintenance Design
- High-Level System Integration
- Safer Dual Fire Fighting Design
- Intelligent Thermal Management Strategy

*Net Promoter Score (Recommendation Rate); Source: EUPD Research 2024 Residential

AlphaCS-H20-DC-LC



| Model | AlphaCS-H20-DC-LC |
|--------------------------------------|---|
| System Parameters | |
| Dimensions (W x D x H) | 6,058 x 2,438 x 2,896 mm |
| System Weight | 35 t |
| Ingress Protection | IP55 |
| Rated Voltage | 1,331.2 V |
| Nominal Capacity | 3,727.3 kWh |
| Rated Charging and Discharging Power | 1,863.6 kW (0.5 C) |
| Battery Cluster Connection | 10 Clusters in Parallel |
| Battery Chemistry | LFP (LiFePO4) |
| Cooling | Liquid Cooling |
| Product Type | Outdoor Container |
| Fire-Fighting System | Aerosol + Sprinkler (Perfluorohexanone is optional) |
| Battery Parameters | |
| Battery Model | M166280-S |
| Rated Voltage | 166.4 V |
| Nominal Capacity | 46.5 kWh |
| Rated Charging and Discharging Power | 23.2 kW (0.5 C) |
| Ingress Protection | IP67 |
| Weight | 333 kg |
| Dimensions (W x D x H) | 810 x 1,110 x 237.5 mm |
| Operating Temperature Range | -30 °C ~ 50 °C* |
| Certification | |
| Compliance | IEC 62619, IEC 62477, UL 9540A, UL 1973, IEC 61000 |

*The optimum temperature range is 15~35°C. If the ambient temperature is too high or too low, the battery performance may deteriorate.



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