# S³-EStation Liquid-cooling Battery Energy Storage System

## S-R10-P8-48S1P-L280-BG

### Safe

- All-round safety design of the system, including the battery cell, battery pack, BMS, fire protection.
- Intelligent battery protection management.

### Smart

- Insulation fault detection and protection
- Full-life-cycle intelligent health control

### Simple

- Standardized and integrated design
- Unified external interfaces



# Technical Specification

| Items | S-R10-P8-48S1P-L280-BG |
|---|---|
| **Battery Module parameters** | |
| Model | P-48S1P-L280-B |
| Standard charge-discharge rate | 0.5C |
| Combination mode | 1P48S |
| Rated energy | 43kWh |
| Nominal voltage | 153.6V |
| Charge and discharge efficiency | ≥93%@25 ± 3°C, 0.5C |
| Thermal management mode | Liquid cooling |
| Temperature difference of a single battery pack cell | ≤3°C |
| IP rating | IP67 |
| Battery charge operating temperature | 0°C~55°C |
| Battery discharge operating temperature | -20°C~55°C |
| Storage temperature | -20°C~45°C |
| Dimensions (W × D × H) | 760×1050×270mm |
| Weight | 305kg |
| Storage humidity | 0~95% (no-condensing) |
| Altitude | ≤ 4000m (>2000m derating) |
| **Battery cluster parameters** | |
| Model | R-P8-48S1P-L280-BG |
| Standard charge-discharge rate | 0.5C |
| Combination mode | 1P384S |
| Rated energy | 344kWh |
| Nominal voltage | 1228.8V |
| Charge and discharge efficiency | ≥92% @25±3 °C, 0.5 C (excluding auxiliary power consumption) |
| Thermal management mode | Liquid cooling |
| Communication mode | CAN |
| IP rating | IP66 |
| Battery charge operating temperature | 0°C~ 55°C |
| Battery discharge operating temperature | - 20 °C~55°C |
| Storage temperature | -20°C~45°C |
| Dimensions (W × D × H) | 980×1100×2500mm |
| Weight | 2600kg |
| Storage humidity | 0~95% (no-condensing) |
| Altitude | ≤ 4000m (>2000m derating) |
| **Container system parameters** | |
| Model | S-R10-P8-48S1P-L280-BG |
| Standard charge-discharge rate | 0.5C |
| Combination mode | 10P384S |
| Rated energy | 3440kWh |
| Nominal voltage | 1228.8V |
| Charge and discharge efficiency | ≥92% @25±3 °C, 0.5 C (excluding auxiliary power consumption) |
| Thermal management mode | Liquid cooling |
| IP rating | IP55 (battery compartment) |
| Communication mode | CAN/RS485/Ethernet |
| Battery charge operating temperature | 0°C~55°C |
| Battery discharge operating temperature | - 20°C~ 55°C |
| Storage temperature | -20°C~45°C |
| Dimensions (W × D × H) | 6058×2438×2896mm |
| Weight | < 35T |
| Storage humidity | 0~95% (no-condensing) |
| Altitude | ≤4000m (>2000m derating) |
| Compliance | EN 62477-1, EN IEC61000-6-2/4, IEC 62619, UN3536 |

- Specification indexes may be subject to changes without further notice.