

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.



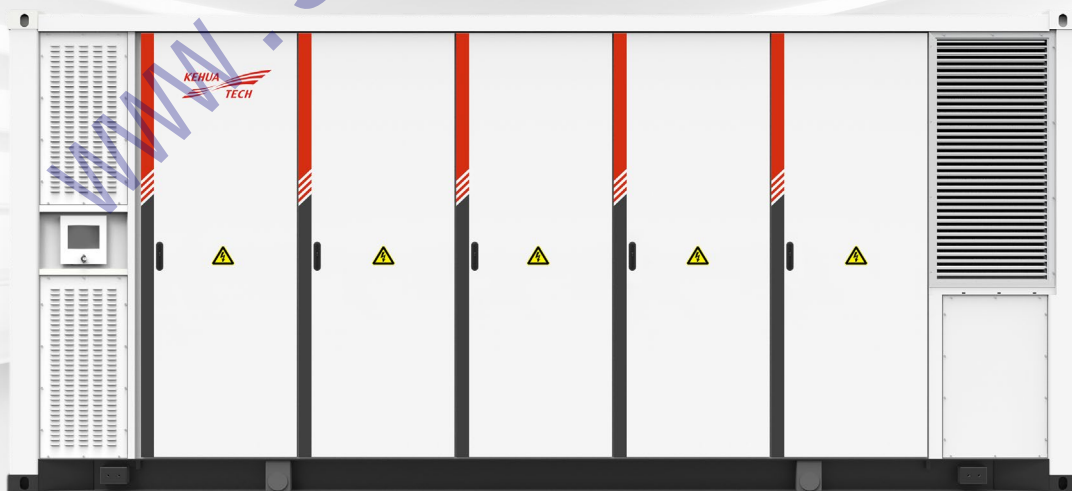
Smart

- 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	0~100% (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.