

1P52S

LIQUID-COOLED BATTERY PACK

Featuring lithium-iron phosphate batteries and a liquid cooling temperature control system to minimize cell temperature variations and enhance the safety of the energy storage system. Designed to support pack-level fire protection and immersion cooling, with customization options available to optimize battery safety according to customer preferences.



Efficient Thermal
Control



Extended Life



Enhanced Energy
Density



Robust Safety

◆ KEY FEATURES



Ensuring a maximum temperature difference of $\leq 3^{\circ}\text{C}$ between batteries and a maximum temperature rise of $\leq 5^{\circ}\text{C}$.



Achieving a 10% boost in energy density per pack compared to air-cooled systems.



Delivering a 15% increase in cycle life compared to air-cooled systems.



Implementing pack-level fire protection to ensure comprehensive safety.

PRODUCT SPECIFICATIONS

Model	1P52S-280Ah	1P52S-314Ah	1P52S-306Ah	1P64S-280Ah	1P64S-314Ah	1P64S-306Ah
Grouping Mode	1P52S	1P52S	1P52S	1P64S	1P64S	1P64S
Nominal Voltage	166.4V	166.4V	166.4V	204.8V	204.8V	204.8V
Rated Capacity	280Ah	314Ah	306Ah	280Ah	314Ah	306Ah
Rated Energy	46.6kWh	52.2kWh	50.9kWh	57.3kWh	64.3kWh	62.7kWh
Rated C-Rate	0.5P	0.5P	0.5P	0.5P	0.5P	0.5P
Weight	330kg	345kg	345kg	400kg	420kg	420kg
Dimensions (L×D×H)	810×1100×240mm	810×1100×240mm	810×1100×240mm	810×1300×240mm	810×1300×240mm	810×1300×240mm
Thermal Management Technology	Liquid cooling/heating					

