

## Outdoor Energy Storage



### Energy Storage Systems: Driving Electric Vehicle Charging Infrastructure Deployment



Energy storage systems (ESS) play a pivotal role in accelerating the deployment of electric vehicle (EV) charging infrastructure, particularly in regions with limited grid capacity. By optimizing the utilization of renewable energy sources like solar power, ESS ensure a reliable and sustainable electricity supply for charging stations. Integrating ESS with solar power plants fosters decentralized and flexible charging infrastructure development.

Additionally, ESS significantly reduce initial investment costs by mitigating the need for costly grid upgrades, enabling charging station installation in previously inaccessible areas. Overall, ESS are essential for promoting sustainable and efficient EV charging ecosystems.

Applications		
➤ Demand Control	➤ Load Shifting	➤ Backup Power
➤ Peak Shaving	➤ UPS / Bridging Power	➤ Grid Flexibility Services



## Outdoor Energy Storage Systems



Battery Properties	POD-A100	POD-A230	POD-L400	POD-L400 PRO
Battery Type	LiFePO <sub>4</sub> - Prismatic			
Cell Capacity	100Ah			
Series/Parallel Configuration	2P160S	3P240S	1P416S	1P416S
Nominal Voltage	512V	768V	1331.2V	1331.2V
Operating Voltage Range	440V - 568V	660V - 852V	1144V - 1478.8V	1123.2V - 1497.6 V
Nominal Energy Capacity	102.4kWh	230.4kWh	402.02kWh	404.68kWh
Cycle Life	≥6000 cycles (**)		≥6000 cycles (**)	
Operational Temperature	-20~55°C			
Charge/Discharge Rate	1C / 1C		0.5C/0.5C	
Maximum Power Rating	102.4kW	230.4kW	201.0kW	404.68kW
Warranty	10 years			
<b>Functional Properties</b>				
Communication	CAN/RS485			
Scalability	Max. 7 units in parallel	Max. 5 units in parallel	Max. 10 units in parallel	Max. 10 units in parallel
Cooling	Air Cooling		Liquid Cooling	
Fire Protection	Aerosol automatic fire protection			
Balancing	Passive			Active
EMS	Optional			
SBMS Unit	Optional			
Grid Connection Box	Optional			
<b>Physical Properties</b>				
Protection Level	IP54			
Humidity	0% - 85% RH (non-condensing)			
Altitude	<3000m			
Dimension(WxDxH)	1100x1200x2400mm	1700x1800x2327mm	1400x1350x2250mm	1500x1450x2800mm
Weight	1700kg	3500kg	4500kg	4000kg

(\*)Test Conditions: 25°C, 70% SOH  
 (\*\*\*)Test Conditions: 25°C, 80% SOH  
 (\*\*\*)Test Conditions: 25°C, 70%SOH