



COMMERCIAL ESS

SME Commercial ESS | 69kWh

A battery and PCS combined – unrivalled for power and price point.

With the Commercial ESS, you can power your small to medium sized enterprise even the highest demand loads with maximum efficiency, minimum energy costs. It's suitable for various industrial parks, malls, hotels, hospitals, etc.

Model	Polar-SME-30/64-ID		Polar-SME-50/64-ID
Battery			
Battery Type	LFP 3.2V/100Ah		
Battery Pack Configuration	1P24S		
Battery Module Connection	1P216S		
Rated Voltage	691.2V		
Voltage Range	580-788.4V		
Battery Module Qty	9		
System Capacity	69.12kWh		
Usable Capacity	64kWh		
AC Output			
Rated Power	30kW	50kW	
Max. Output Power	33kW	60kW	
THDi	≤3% (Rated Power)		
Rated Grid Voltage	400V		
Voltage Range	360-440V		
AC Connection	3P+N+PE		
Rated Frequency	50Hz/60Hz		
Adjustable Power Factor	1 Lagging - 1 Leading		
Protection			
DC Reverse Polarity Protection	Yes		
Output Over Current Protection	Yes		
Output Over Voltage Protection	Yes		
Short Circuit Protection	Yes		
Surge Protection	Level 2		
High and Low Voltage Ride-through	Yes		
Communication			
Communication Interfaces	RS485/CAN/Ethernet		
Human Machine Interface	Touchscreen		
General Data			
Charge/Discharge Rate	0.5C	1C	
Depth of Discharge	90%		
Battery Cycle Life	≥6000	≥4000	
Topology	Transformerless		
Max. Efficiency	≥90%	≥89%	
Protection Class	IP20		
Cooling Method	Fan Cooling		
Communication Protocol	CAN/RS485/LAN		
Operating Temperature	0℃-55℃		
Noise Emission	<70dB		
Humidity	0~95% (No Condensation)		
Dimension (W×D×H)	600×800×2000(mm)	600×800×2160(mm)	
Weight	850kg	880kg	