

# SME Commercial ESS | 64kWh

# 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.



### All-in-one Integration

The PCS, battery pack, BMS, EMS, intelligent air cooling systems are seamlessly integrated within a compact cabinet.



#### **Easy to Install & Operate**

Factory pre-assembly enhances system integration, simplifying transportation and deployment on site.



#### **Modular Design**

Allows for flexible system scale expansion through the parallel use of multiple machines.

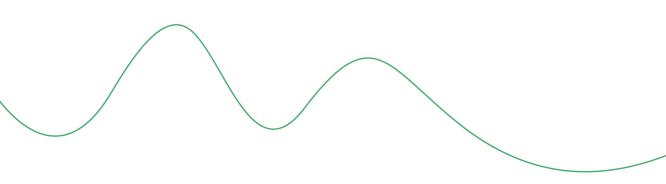


## **Online Monitoring**

All data, including cell voltages, pack temperatures, power and energy values, are regularly reported to the cloud. Mode selection and timed control are available via the web or APP, enabling a full remote monitoring platform.

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 Voltage	230V/400V		
Voltage Range	360-440V		
AC Connection	3P4W+PE		
Rated Frequency	50Hz/60Hz		
Power Factor	1 Lagging 1 Lead	ding	
	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-throug	h	Yes	
	Con	nmunication	
Communication Interfaces		RS485/CAN/Ethernet	
Human Machine Interface	Touchscreen		
	Ge	eneral 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°C~55°C	
Humidity	0~95% (No Condensation)		
Size (W*D*H)	600mm*800mm*2000mm		600mm*800mm*2160mm



880kg

850kg

Weight