

ESS-50
PV-Storage-Diesel Microgrid System



Integration of PV, energy storage, and diesel generation



Automatic switching between grid-connected and off-grid loads



50KW high-power PV input



Fast installation and deployment



Up to 4 units for parallel operation



Simple and easy to use

ESS -50 Product Introduction

BESS Model	ES 51.2
Capacity	51.2kWh(5.12kWh*10)
Nominal Voltage	512V
Nominal Capacity	100AH
Cabinet Size (mm)	640*830*1900
Weight (kg)	750KG
Charge/discharge power MAX	100A
Cooling method	Air-cooled
Protection class	IP54
Type of firefighting	Aerosol
Battery Module Specification	
Battery Types	51.2V-100AH
Nominal Capacity (KWh)	5.12KWh
Recommend Charge/Discharge Current (A)	50
Max. Charge/Discharge Current (A)	100
Communication	RS485/CAN
Working Temperature	0°C~50°C (Charge) ; -10°C~50°C (Discharge)
Transport or Storage Temperature Range	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10years+
Cycle Life	(0.5C/0.5C-80% DOD)>6000 times
Cooling method	Air-cooled
Certification	UN38.3/MSDS/ROHS
Inverter	
Rated Power	25KW
Overloaded	110%
Rated AC Voltage	3L/N/PE Three Phase
Rated frequency	50/60Hz