

PrimeSun 265K

Large-sized Mobile PV Storage Equipment

Mobility / Modularity
Quick and easy installation



Mobile ESS

Standard Proposal

PV	100kW
PCS	125kW
Battery	265kWh
DG	Optional

Application Scenarios



Solar panels		
Maximum Power (Pmax/W)		585W
Max. PV Array Power		100kW
Peak Power Voltage (Vmp/V)		44.42V
Peak Power Current (Imp/A)		13.17A
Open Circuit Voltage (Voc/V)		51.82V
Short Circuit Current (Isc/A)		13.96A
Module Efficiency(%)		22.65%
Battery Parameters		
Battery Type		LiFePO ₄
Configuration		1P264S
Rated Battery Voltage		DC 844.8V
Nominal Capacity		314Ah
Battery Voltage Range		739.2~950.4V
Nominal Energy		265.267kWh
Usable Energy(kWh@90%DOD)		238.74kWh
Cycle Life		≥8000 Cycles(@25°C,0.5C,90%DOD,70%EOL)
Warranty Period		5+5 years
Cumulative Discharge Energy		426.0MWh
AC (On Grid)		
Rated Power		125kW
Output Voltage		AC 230/400V
Grid Frequency		50/60Hz
Grid Connection Form		3W+N+PE
Power Factor		0.99
Power Factor Range		-1(leading)~1(lagging)
THDi		<2%(rated power)
AC (off-grid)		
Rated Power		125kW
Output Voltage		AC 230/400V
Grid Frequency		50/60Hz
AC Voltage harmonic		<3%(Linear load)
Isolation Transformer Parameters		
Voltage		AC 400/400V
Capacity		150kVA
Max. Efficiency		≥97%
Short-Circuit Impedance		4%
Basic Parameters		
Dimension		L: 115m W: 9m
Weight		3350kg
Operating Temperature Range(°C)		-30°C~55°C(> 45°C derating)
Relative Humidity		5%~90%(non-condensing)
IP Rating		IP54
Anti-corrosion Grade		C4(Optional C5)
Noise		75dB(<1m distance)
Altitude		≤2000m
Cooling Method		Intelligent Air Cooling (Battery compartment air conditioning,electrical compartment fan)
Certifications		UN38.3,MSDS,IEC62619(CB),IEC63056(CB),IEC62040-1(CB),CE-EMC,IEC62477-1,IEC60529