

JinkoSolar Lights Up Mozambique: Delivering PV Plus ESS Microgrid to Empower Chipera Community

JinkoSolar has delivered a solar plus ESS microgrid project in Chipera, Mozambique, with the company's support in delivering 500kWp PV and 0.2MWh ESS.

SYSTEM TECHNICAL SPECIFICATIONS

DC D t		27℃ -25℃	81℃ -25℃	135℃ -25℃
Battery Chemistry		Lithium Iron Phosphate (LFP)		
Cycle Life C _{ref}	5,000 Cycles 1C@25% 90%DOD	5,000 Cycles 0.5C@25% 90%DOD		
C _{ref} Temperature		3.2V/96Ah		
Battery Internal C _{ref} Temperature	2P11S	6P11S	10P11S	
DC Battery Energy Capacity	270kWh	810kWh	1350kWh	
Max. T _{ref}		704V		
T _{ref} Temperature		616V~792V		
Battery Communication Protocol		RS485, Ethernet		
Battery Communication Protocol		Modbus RTU, Modbus TCP		
Max. T _{ref} Temperature		1000V		
Max. T _{ref} / Max. T _{ref}		300/360kW		
Max. T _{ref} Temperature		250-850V		
Max. T _{ref} Temperature @T _{ref}		450-850V		
AC D t				
Max. AC Power		250kW		
Max. AC Power		275kW		
Max. T _{ref}		400V		
AC Max. Current		361A		
Max. D		≤3%		
Max. F _{ref}		1(leading) ~1(lagging)		
Max. F _{ref} Frequency ()		50/60Hz		
ACC Power		3W+N+PE		
Max. Power		250kW		
Max. Power Delay		≤20ms		
n _r ID t				
Dimensions (*D*)	2,991*2,438*2,591mm	6,058*2,438*2,591mm	12,192*2,438*2,591mm	
Max. T _{ref}	<10T	<20T	< 30T	
D _{ref} Temperature		IP54		
Max. T _{ref} / Max. T _{ref}		-20~40℃		
Max. T _{ref} Temperature		0~95% (non-condensing)		
Max. T _{ref} Temperature		3,000m		
C _{ref} C _{ref} DC Power		HVAC		
C _{ref} C _{ref} Temperature		RS485, Ethernet, GPRS		
C _{ref} Temperature		UL9540A, IEC62619, CE, UN38.3		