

10. Specifications

10.1 AC Port

Grid Input		
Item	Description	Note
Wiring	L1/L2/N/G	
Rated Voltage	120VAC / 240VAC	
Voltage Range	110V-126V / 220V-252V	
Input Frequency Range	55Hz-65Hz	
Maximum Input Apparent Power	12000VA	Bypass + Grid Charging
Maximum Input Current	50A	Bypass + Grid Charging
Maximum Input Power	7680W	
Power Factor (PF)	1.0	Grid Charging
Current Total Harmonic Distortion (THD)	<3%	Grid Charging
On and Off-Grid Switching Time	<20ms	
Grid Charging Efficiency	94% Peak	

Off-grid Load Output		
Item	Description	Note
Rated Output Power	7680W	
Output Voltage	120V / 240V	
Output Current	32A	
Output Frequency	60Hz	
Inversion Efficiency	94% Max.	
Output Voltage THD	<3%	Pure resistive load
Crest Factor (CF)	3:1	
Maximum Number of Parallel Units	2	
Overload	100%-110% of rated power, 10min; 110%-150% of rated power, 10s.	
Protection	Output overcurrent protection Output short-circuit protection Over temperature protection	

10.2 DC Port

PV Input		
Item	Description	Note
Maximum Input Power	9000W	
MPPT Channel	2	3000W+ 6000W
Array In Series	1+2	
Maximum Input Voltage	550V	
MPPT Voltage Range/Rated	150V-500V / 360V	
Single MPPT Maximum Input Current	12.5A / 25A	
Single MPPT Maximum Short-circuit Current	15A / 30A	
MPPT Efficiency	99.9%	
PV Inversion Efficiency	96.0% Peak	PV Input
Protection	Reverse polarity protection Insulation resistance detection Arcing detection	

Battery		
Item	Description	Note
Battery Model	B500	
Number of Parallel Units	2-4	
Maximum Input Power	9000W	When there are only two units connected, the input power is lower.
Charging Strategy	BMS Orders (CC / CV)	

General

AC (Grid-tied)		
Item	Description	Note
Relative Humidity	5%-95%	
Static Power	18W	
Standby Power	75W	
Operating Ambient Temperature Range	4°F to 104°F / -20°C to 40°C	
Noise Emission (dB)	≤50dB (A)	
Cooling	Forced air cooling	
Ingress Protection (IP) Rating	NEMA 4X / IP65	
Working Altitude	≤6561ft / 2000m	
Dimensions (L*W*H)	25.0in × 12.8in × 14.6in / 636mm × 325mm × 370mm	
Net Weight	105lbs / 48kg	
Communication	USB / WiFi / Bluetooth	
Warranty	10 years	