



Sunsynk Maximus Split Phase Hybrid Inverter



Datasheet

SSM-6-SPHYB-UL
SSM-7.6-SPHYB-UL
SSM-11.4-SPHYB-UL

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Model	SSM-6-SPHYB-UL		SSM-7.6-SPHYB-UL	SSM-11.4-SPHYB-UL
Battery Input Data				
Battery Type	Lithium-ion/Lead-acid			
Rated Battery Voltage	48V			
Battery Voltage Range	40V-64V			
Max. Charging Current	210A			
Max. Discharging Current	130A	180A	210A	
Max. Charging Power	10,000W			
Max. Discharging Power	6,000W	7,600W	10,000W	
PV String Input Data				
Max. DC Input Power	9,000W	12,000W	15,000W	
PV Input Voltage	450V (90V - 600V)			
Start-up Voltage	90V			
MPPT Range	70V-540V			
PV Input Current	30A+22A	30A+22A+22A		
Max. PV Isc	40A+30A	40A+30A+30A		
Strings per MPPT	2+2	2+2+2		
No. of MPPTs	2	3		
AC Output Data				
Rated AC Output and UPS Power	6,000W	7,600W	10,000W	
Max. AC Output Apparent Power	6,600VA	7,600VA	11,400VA	
Max. AC Output Power	6,600W	7,600W	11,400W	
Peak Power (Off-Grid)	2 Times of Rated Power, 1s			
AC Output Rated Current	25A	31.7A	41.7A	
Max. AC Current	27.5A	34.8A	47.5A	
Rated Input/Output Voltage	120/240V (Split Phase) , 120/208V (2/3 Phase)			
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz , 60Hz/55Hz-65Hz			
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging (> 0.99 @ Rated Power)			
Total Current Harmonic Distortion THDi	<3% (of Nominal Power)			
Transfer Time	< 10ms (Typical)			
THDV	<3% @100% R Load			
Efficiency				
Max. Efficiency (PV to AC)	98.0%			
Max. Efficiency (BATT to AC)	94.5%			
CEC. Efficiency	96.5%			
Protection				
Protection Category	Class I			
Integrated	DC Switch, Anti-Islanding Protection, AC Overcurrent Protection, AC Short Circuit Protection, DC Reverse Connection, Insulation Resistance Detection, Leakage Current Protection, AFCI/RSD Monitoring			
DC/AC Overvoltage Protection	DC Type II, AC Type IV			
Surge Arrester	DC Type II, AC Type II			

HMI & COM	
Display	Wireless & APP + LED , Touch LCD
Communication Interface	CAN (for BMS), RS485 (for Meter), RS485, CAN (for Parallel), Wi-Fi
General	
Max. Operation Altitude	2000m
Protection Degree	NEMA 3R/IP65
Operating Temperature Range	-25~60°C(>45°C Derating)
Relative Humidity	0~100%
Cooling	Fan Cooling
Installation Style	Wall Bracket
Dimensions (WxHxD)	16.5x31.5x9.4 inches (420x800x240mm)
Weight	40kg/88lbs
Certification	
Safety	UL 1741/CSA C22.2/UL 1699B
EMC	FCC Part 15 Class B
Grid	UL1741SA, UL1741SB, UL 1741 PCS CRD, IEEE1547, HECO SRD 2.0, CSIP
Warranty	5 Years

Please Note

The range of output voltage and frequency may vary depending on different grid codes.

Specifications are subject to change without advanced notice.



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