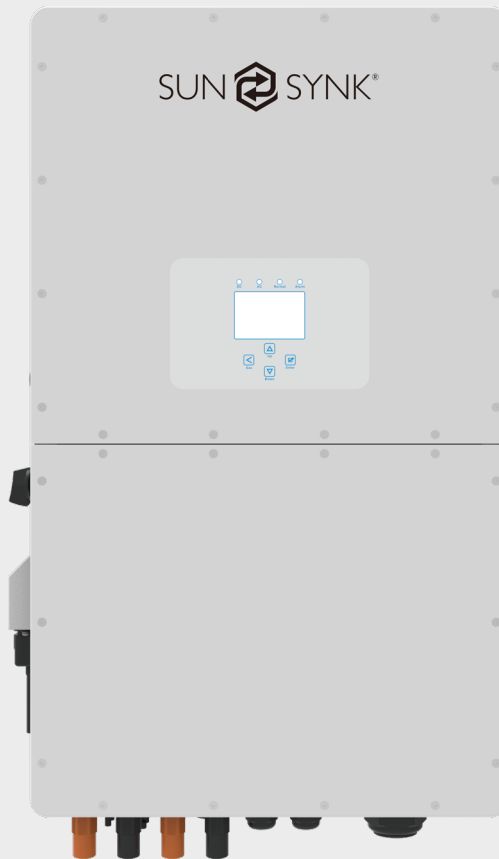




THREE-PHASE HYBRID INVERTER



DATASHEET

SUNSYNK-29.9K-SG01HP3-EU-BM3
SUNSYNK-30K-SG01HP3-EU-BM3
SUNSYNK-35K-SG01HP3-EU-BM3
SUNSYNK-40K-SG01HP3-EU-BM4
SUNSYNK-50K-SG01HP3-EU-BM4

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Model	SUNSYNK-29.9K-SG01HP3-EU-BM3	SUNSYNK-30K-SG01HP3-EU-BM3	SUNSYNK-35K-SG01HP3-EU-BM3	SUNSYNK-40K-SG01HP3-EU-BM4	SUNSYNK-50K-SG01HP3-EU-BM4
Battery Input Data					
Battery Type	Li-Ion				
Battery Voltage Range	160~800V				
Max. Charging Current	50A+50A				
Max. Discharging Current	50A+50A				
Number of battery input	2				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
PV String Input Data					
Max. DC Input Power	38870W	39000W	45500W	52000	65000W
Max. DC Input Voltage	1000V				
Start-up Voltage	180V				
MPPT Range	150-850V				
Full Load DC Voltage Range	360-850V	360-850V	420-850V	360-850V	450-850V
Rated DC Input Voltage	600V				
PV Input Current	36+36+36A			36+36+36+36A	
Max. PV Isc	55+55+55A			55+55+55+55A	
No. Of MPPT Trackers	3			4	
No. Of Strings Per MPPT Tracker	2+2+2			2+2+2+2	
AC Output Data					
Rated AC Output and UPS Power	29900W	30000W	35000	40000W	50000W
Max. AC Output Power	29900W	33000W	38500	44000W	55000W
Peak Power(off grid)	1.5 time of rated power, 10 S				
AC Output Rated Current	45.4/43.4A	45.5/43.5A	53.1/50.8A	60.7/58.0A	75.8/72.5A
Max. AC Current	45.4/43.4A	50/47.9A	58.4/55.8A	66.7/63.8A	83.4/79.8A
Max. Three-phase Unbalanced Output Current	60A	60A	60A	70A	83.3A
Max. Continuous AC Pass through	200A				
Power Factor	0.8 leading to 0.8 lagging				
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac				
Grid Type	Three Phase				
Total Harmonic Distortion (THD)	<3% (of nominal power)				
DC injection current (mA)	<0.5%In				
Efficiency					
Max. Efficiency	97.60%				
Euro Efficiency	97.00%				
MPPT Efficiency	>99%				

Protection	
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection
Output Over Voltage Protection	DC Type II / AC Type III
Battery Over Current Protection	Fuses
Certifications and Standards	
Grid Regulation	EN 50549-1, AS-NZS 4777.2, NRS 097-2-1; Additional connections available upon request
EMC/Safety Regulation	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Operating Temperature Range	-40~60 °C, >45 °C Derating
Cooling	Intelligent air cooling
Noise	≤65 dB
Communication with BMS	RS485; CAN
Net Weight	84.90 kg
Gross Weight	100.50 kg
Size	527W×894H×294D mm
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years



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