



THREE-PHASE HYBRID INVERTER



DATASHEET

SUNSYNK-5K-SG01HP3-EU-AM2/SUNSYNK-6K-SG01HP3-EU-AM2
SUNSYNK-8K-SG01HP3-EU-AM2/SUNSYNK-10K-SG01HP3-EU-AM2
SUNSYNK-12K-SG01HP3-EU-AM2/SUNSYNK-15K-SG01HP3-EU-AM2
SUNSYNK-20K-SG01HP3-EU-AM2/SUNSYNK-25K-SG01HP3-EU-AM2

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Model	SUNSYNK-5K-SG01HP3-EU-AM2	SUNSYNK-6K-SG01HP3-EU-AM2	SUNSYNK-8K-SG01HP3-EU-AM2	SUNSYNK-10K-SG01HP3-EU-AM2	SUNSYNK-12K-SG01HP3-EU-AM2	SUNSYNK-15K-SG01HP3-EU-AM2	SUNSYNK-20K-SG01HP3-EU-AM2	SUNSYNK-25K-SG01HP3-EU-AM2	
Battery Input Data									
Battery Type	Lithium-ion								
Battery Voltage Range (V)	160~700								
Max. Charging Current (A)	30	37					50		
Max. Discharging Current (A)	30	37					50		
Number of Battery Input	1								
Charging Strategy for Li-Ion Battery	Self-adaption to BMS								
PV String Input Data									
Max. DC Input Power (W)	6500	7800	10400	13000	15600	19500	26000	32500	
Max. DC Input Voltage (V)	1000								
Start-up Voltage (V)	180								
MPPT Range (V)	150-850								
Full Load DC Voltage Range (V)	195-850	195-850	260-850	325-850	340-850	420-850	500-850	625-850	
Rated DC Input Voltage (V)	600								
PV Input Current (A)	20+20				26+20		26+26		
Max. $PV I_{sc}$ (A)	30+30				39+30		39+39		
No. of MPPT	2								
No. of Strings per MPPT	1+1				2+1		2+2		
AC Output Data									
Rated AC Output and UPS Power (W)	5000	6000	8000	10000	12000	15000	20000	25000	
Max. AC Output Active Power (W)	5500	6600	8800	11000	13200	16500	22000	27500	
AC Output Rated Current (A)	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4	22.8/21.8	30.4/29	37.9/36.3	
Max. AC Output Current (A)	8.4/8	10/9.6	13.4/12.8	16.7/16	20/19.2	25/24	33.4/31.9	41.7/39.9	
Max. Three-phase Unbalanced Output Current(A)	13	13	18	22	25	30	35	41.7	

Max. Continuous AC Passthrough (A)	40				80			
Peak Power (off grid)	1.5 time of rated power, 10 S							
Generator Input/ Smart Load/AC Couple Current (A)	7.6/40/7.6	9.1/40/9.1	12.2/40/12.2	15.2/40/15.2	18.2/80/18.2	22.8/80/22.8	30.4/80/30.4	37.9/80/37.9
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 Harmonics Current Distortion(THDi)	<3% (of nominal power)							
DC Current Injection	<0.5% In							
Efficiency								
Max. Efficiency	97.60%							
Euro Efficiency	97.00%							
MPPT Efficiency	99.90%							
Protection								
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection, Arc Fault Circuit Interruption (AFCI optional)							
Over Voltage Category	DC Type II/AC Type III							
Certifications and Standards								
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105							
Safety EMC/ Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							
General Data								
Operating Temperature Range (°C)	-40-60°C, >45°C Derating							
Cooling	Free Cooling				Smart Cooling			
Noise (dB)	≤55 dB							
Communication with BMS	CAN							
Weight (kg)	30.5							
Cabinet Size (WxHxD mm)	408×638×237 (Excluding Connectors and Brackets)							
Protection Degree	IP65							
Installation Style	Wall-mounted							



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