



HYBRID PARITY (SUPER) INVERTER



DATASHEET

SUNSYNK-3.6K-SG01LP1 / SUNSYNK-3.6K-SG01LP3
SUNSYNK-3.6K-SG02LP1
SUNSYNK-5K-SG01LP1 / SUNSYNK-5K-SG01LP3

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Model	SUNSYNK-3.6K-SG01LP1 / SUNSYNK-3.6K-SG01LP3
Product Type	Hybrid Inverter
Enclosure	IP65
Ambient Temperature	-45°C ~ 60°C (>45°C derating)
Protection Level	Class I
Charge Mode	
Battery Voltage	48Vd.c (40Vd.c ~ 60Vd.c)
Battery Current	90Ad.c (max.)
AC Input Voltage	L/N/PE 220/230Va.c
AC Input Frequency	50/60Hz
AC Input Rated Current	16.4Aa.c
Max. AC Input Current	18Aa.c (max.)
Max. AC Input Power	3960W
Max. Apparent Output Power	3960VA
PV Input Voltage	370Vd.c (125Vd.c ~ 500Vd.c)
MPPT Input Voltage	150Vd.c ~ 425Vd.c
PV Input Current	13Ad.c + 13Ad.c
Max. PV Input Power	4680W
Max. PV Isc	17Ad.c + 17Ad.c
Utility-Interactive	
AC Output Voltage	L/N/PE 220/230Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	16.4Aa.c
Max. AC Output Current	18Aa.c (max.)
Max. AC Output Power	3960W
AC Output Rated Power	3960VA
AC Output Power Factor	0.95 leading to 0.95 lagging
Max. AC Isc	60Aa.c
Battery Discharge Voltage	40Vd.c ~ 60Vd.c
Battery Discharge Current	90Ad.c (max.)
Battery Discharge Power	3600W
Stand Alone	
AC Output Voltage	L/N/PE 220/230Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	16.4Aa.c
AC Output Rated Power	3960W
Max. Continuous AC Pass-through Current	35Aa.c
Peak Output Power	7200W (10 seconds)
Battery Discharge Voltage	40Vd.c ~ 60Vd.c
Max. Discharge Current	90A (max.)
Compliance	VDE-AR-N 4105:1028-11; DIN VDE V 0124-100:2020-06; IEC/EN62109-1/2:2010; IEC/EN62109-1/2:2011

Model	SUNSYNK-3.6K-SG02LP1
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range	40~60V
Max. Charging Current	90A
Max. Discharging Current	90A
PV String Input Data	
Max. DC Input Power	7000W
Voc Max.	500V
MPPT Range	150~425V
Full Load DC Voltage Range	300~425V
Start-up Voltage	125V
PV Input Current	13A+13A
No. of MPPT Trackers	2
No. of Strings Per MPPT Tracker	1+1
AC Output Data	
Rated AC Output and UPS Power	3600W
Max. AC Power	3960W
Peak Power (off-grid)	2 times of rated power, 10 S
AC Output Rated Current	16.4A
Max AC Output Current	18A
Max Continuous AC Pass-through	35A
Power Factor	0.95 leading to 0.95 lagging
Output Frequency and Voltage	50/60Hz; 220/230/240Vac (single phase)
Current Harmonic Distortion	THD<3% (Linear load<1.5%)
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
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
Certifications and Standards	
Grid Regulation	VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699:2011, XP C15-712-3:2019-05
Safety Regulation	IEC62109-1, IEC62109-2
EMC	EN61000-6-1, EN61000-6-3
General Data	
Operating Temperature Range	-25~60°C, >45°C Derating
Cooling	Natural Cooling
Noise (dB)	<30
Communication with BMS	RS485; CAN
Weight	30kg
Size (Length x Width x Height)	233 x 445 x 708 mm
Protection Degree	IP65
Warranty	5 years

Model	SUNSYNK-5K-SG01LP1 / SUNSYNK-5K-SG01LP3
Product Type	Hybrid Inverter
Enclosure	IP65
Ambient Temperature	-45°C ~ 60°C (>45°C derating)
Protection Level	Class I
Charge Mode	
Battery Voltage	48Vd.c (40Vd.c ~ 60Vd.c)
Battery Current	120Ad.c (max.)
AC Input Voltage	L/N/PE 220/230Va.c
AC Input Frequency	50/60Hz
AC Input Rated Current	22.7Aa.c
Max. AC Input Current	25Aa.c (max.)
Max. AC Input Power	5500W
Max. Apparent Output Power	5500VA
PV Input Voltage	370Vd.c (125Vd.c ~ 500Vd.c)
MPPT Input Voltage	150Vd.c ~ 425Vd.c
PV Input Current	13Ad.c + 13Ad.c
Max. PV Input Power	6500W
Max. PV Isc	17Ad.c + 17Ad.c
Utility-Interactive	
AC Output Voltage	L/N/PE 220/230Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	22.7Aa.c
Max. AC Output Current	25Aa.c (max.)
Max. AC Output Power	5500W
AC Output Rated Power	5500VA
AC Output Power Factor	0.95 leading to 0.95 lagging
Max. AC Isc	75Aa.c
Battery Discharge Voltage	40Vd.c ~ 60Vd.c
Battery Discharge Current	120Ad.c (max.)
Battery Discharge Power	5000W
Stand Alone	
AC Output Voltage	L/N/PE 220/230Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	22.7Aa.c
AC Output Rated Power	5500W
Max. Continuous AC Pass-through Current	35Aa.c
Peak Output Power	10000W (10 seconds)
Battery Discharge Voltage	40Vd.c ~ 60Vd.c
Max. Discharge Current	120A (max.)
Compliance	VDE-AR-N 4105:1028-11; DIN VDE V 0124-100:2020-06; IEC/EN62109-1/2:2010; IEC/EN62109-1/2:2011



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