



THREE-PHASE HYBRID INVERTER



DATASHEET

SYNK-8K-SG04LP3 / SYNK-10K-SG04LP3 /
SYNK-12K-SG04LP3

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Model	SYNK-8K-SG04LP3
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	190Ad.c (max.)
AC Input Voltage	3L/N/PE 220/380Va.c, 230/400Va.c
AC Input Frequency	50/60Hz
AC Input Rated Current	12.1Aa.c
Max. AC Input Current	18.2a.c (max.)
Max. AC Input Power	8800W
Max. Apparent Output Power	8800VA
PV Input Voltage	550Vd.c (160Vd.c ~ 800Vd.c)
MPPT Input Voltage	200Vd.c ~ 650Vd.c
PV Input Current	13Ad.c + 13Ad.c
Max. PV Input Power	10400W
Max. PV Isc	17Ad.c + 17Ad.c
Utility-Interactive	
AC Output Voltage	3L/N/PE 220/380Va.c, 400Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	12.1Aa.c
Max. AC Output Current	18.2a.c (max.)
Max. AC Output Power	8800W
AC Output Rated Power	8800W
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	190Ad.c (max.)
Battery Discharge Power	8000W
Stand Alone	
AC Output Voltage	3L/N/PE 220/380Va.c, 230/400Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	12.1Aa.c
AC Output Rated Power	8000W
Max. Continuous AC Pass-through Current	45Aa.c
Battery Discharge Voltage	40Vd.c ~ 60Vd.c
Max. Discharge Current	190A (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	SYNK-10K-SG04LP3
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	210Ad.c (max.)
AC Input Voltage	3L/N/PE 220/380Va.c, 400Va.c
AC Input Frequency	50/60Hz
AC Input Rated Current	15.2Aa.c
Max. AC Input Current	22.7Aa.c (max.)
Max. AC Input Power	11000W
Max. Apparent Output Power	11000VA
PV Input Voltage	550Vd.c (160Vd.c ~ 800Vd.c)
MPPT Input Voltage	200Vd.c ~ 650Vd.c
PV Input Current	26Ad.c + 13Ad.c
Max. PV Input Power	13000W
Max. PV Isc	34Ad.c + 17Ad.c
Utility-Interactive	
AC Output Voltage	3L/N/PE 220/380Va.c, 400Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	15.2Aa.c
Max. AC Output Current	22.7Aa.c (max.)
Max. AC Output Power	11000W
AC Output Rated Power	11000W
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	210Ad.c (max.)
Battery Discharge Power	10000W
Stand Alone	
AC Output Voltage	3L/N/PE 220/380Va.c, 400Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	15.2Aa.c
AC Output Rated Power	10000W
Max. Continuous AC Pass-through Current	45Aa.c
Peak Output Power	20000W (10 seconds)
Battery Discharge Voltage	40Vd.c ~ 60Vd.c
Max. Discharge Current	210A (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	SYNK-12K-SG04LP3
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	240Ad.c (max.)
AC Input Voltage	3L/N/PE 220/380Va.c, 400Va.c
AC Input Frequency	50/60Hz
AC Input Rated Current	18.2Aa.c
Max. AC Input Current	27.3Aa.c (max.)
Max. AC Input Power	13200W
Max. Apparent Output Power	13200VA
PV Input Voltage	550Vd.c (160Vd.c ~ 800Vd.c)
MPPT Input Voltage	200Vd.c ~ 650Vd.c
PV Input Current	26Ad.c + 13Ad.c
Max. PV Input Power	15600W
Max. PV Isc	34Ad.c + 17Ad.c
Utility-Interactive	
AC Output Voltage	3L/N/PE 220/380Va.c, 400Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	18.2Aa.c
Max. AC Output Current	27.3Aa.c (max.)
Max. AC Output Power	13200W
AC Output Rated Power	12000W
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	240Ad.c (max.)
Battery Discharge Power	12000W
Stand Alone	
AC Output Voltage	3L/N/PE 220/380Va.c, 400Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	18.2Aa.c
AC Output Rated Power	12000W
Max. Continuous AC Pass-through Current	45Aa.c
Peak Output Power	24000W (10 seconds)
Battery Discharge Voltage	40Vd.c ~ 60Vd.c
Max. Discharge Current	240A (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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