



THREE-PHASE HYBRID INVERTER



DATASHEET

SUN-8K-SG04LP3 / SUN-10K-SG04LP3 /
SUN-12K-SG04LP3

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| Model | SUNSYNK-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; DINVDE V 0124-100:2020-06; IEC/EN62109-1/2:2010; IEC/EN62109-1/2:2011 |

| Model | SUNSYNK-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; DINVDE V 0124-100:2020-06; IEC/EN62109-1/2:2010; IEC/EN62109-1/2:2011 |

| Model | SUNSYNK-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; DINVDE V 0124-100:2020-06; IEC/EN62109-1/2:2010; IEC/EN62109-1/2:2011 |



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