



SUN  SYNK®  
THREE-PHASE  
**HYBRID INVERTER**



**DATASHEET**

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

Global Tech China Ltd, 3 Floor, Wai Yip Industrial Building,  
171 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong.

Tel: +852 2884 4318 Fax: +8522884 4816

[www.sunsynk.com](http://www.sunsynk.com) / [sales@sunsynk.com](mailto:sales@sunsynk.com)



Model	SYNK-8K-SG04LP3
Product Type	Hybrid Inverter
Enclosure	IP65
Ambient Temperature	-45°C ~ 60°C (>45°C derating)
Protection Level	Class I
<b>Charge Mode</b>	
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
<b>Utility-Interactive</b>	
<b>AC Output Voltage</b>	
AC Output Frequency	3L/N/PE 220/380Va.c, 400Va.c
AC Output Rated Current	50/60Hz
Max. AC Output Current	12.1Aa.c
Max. AC Output Power	18.2a.c (max.)
AC Output Rated Power	8800W
AC Output Power Factor	8800W
Max. AC Isc	0.95 leading to 0.95 lagging
Battery Discharge Voltage	75Aa.c
Battery Discharge Current	40Vd.c ~ 60Vd.c
Battery Discharge Power	190Ad.c (max.)
<b>Stand Alone</b>	8000W
<b>AC Output Voltage</b>	
AC Output Frequency	3L/N/PE 220/380Va.c, 230/400Va.c
AC Output Rated Current	50/60Hz
AC Output Rated Power	12.1Aa.c
Max. Continuous AC Pass-through Current	8000W
Battery Discharge Voltage	45Aa.c
Max. Discharge Current	40Vd.c ~ 60Vd.c
Compliance	190A (max.)
	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
<b>Charge Mode</b>	
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
<b>Utility-Interactive</b>	
<b>AC Output Voltage</b>	
AC Output Frequency	3L/N/PE 220/380Va.c, 400Va.c
AC Output Rated Current	50/60Hz
Max. AC Output Current	15.2Aa.c
Max. AC Output Power	22.7Aa.c (max.)
AC Output Rated Power	11000W
AC Output Power Factor	11000W
Max. AC Isc	0.95 leading to 0.95 lagging
Battery Discharge Voltage	75Aa.c
Battery Discharge Current	40Vd.c ~ 60Vd.c
Battery Discharge Power	210Ad.c (max.)
<b>Stand Alone</b>	10000W
<b>AC Output Voltage</b>	
AC Output Frequency	3L/N/PE 220/380Va.c, 400Va.c
AC Output Rated Current	50/60Hz
AC Output Rated Power	15.2Aa.c
Max. Continuous AC Pass-through Current	10000W
Peak Output Power	45Aa.c
Battery Discharge Voltage	20000W (10 seconds)
Max. Discharge Current	40Vd.c ~ 60Vd.c
Compliance	210A (max.)
	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
<b>Charge Mode</b>	
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
<b>Utility-Interactive</b>	
<b>AC Output Voltage</b>	
AC Output Frequency	3L/N/PE 220/380Va.c, 400Va.c
AC Output Rated Current	50/60Hz
Max. AC Output Current	18.2Aa.c
Max. AC Output Power	27.3Aa.c (max.)
AC Output Rated Power	13200W
AC Output Power Factor	12000W
Max. AC Isc	0.95 leading to 0.95 lagging
Battery Discharge Voltage	75Aa.c
Battery Discharge Current	40Vd.c ~ 60Vd.c
Battery Discharge Power	240Ad.c (max.)
<b>Stand Alone</b>	12000W
<b>AC Output Voltage</b>	
AC Output Frequency	3L/N/PE 220/380Va.c, 400Va.c
AC Output Rated Current	50/60Hz
AC Output Rated Power	18.2Aa.c
Max. Continuous AC Pass-through Current	12000W
Peak Output Power	45Aa.c
Battery Discharge Voltage	24000W (10 seconds)
Max. Discharge Current	40Vd.c ~ 60Vd.c
Compliance	240A (max.)
	VDE-AR-N 4105:1028-11; DIN VDE V 0124-100:2020-06; IEC/EN62109-1/2:2010; IEC/EN62109-1/2:2011





## CONTACT US

**Email us:** [sales@sunsynk.com](mailto:sales@sunsynk.com) **Call us UK:** +44 151 8324300

**VAT Number:** 175669460

**UK Address:** Sunsynk, 17 Turnstone business park,  
Mulberry Avenue. Widnes, Cheshire, WA8 0WN.

GlobalTech<sup>Ltd</sup>



Powered by  
SUN SYNK



[www.solars.co.za](http://www.solars.co.za)