

# SPA 4000~10000TL3 BH

- IP65 & Natural cooling
- Supports Retrofit & New Systems
- Three work modes programmable
- Compatible with high-voltage battery
- Online Smart Service



P O W E R  
- I N G  
T O M O -  
R R O W

Datasheet	SPA 4000TL3 BH	SPA 5000TL3 BH	SPA 6000TL3 BH	SPA 7000TL3 BH	SPA 8000TL3 BH	SPA 10000TL3 BH
<b>Output data(AC)</b>						
AC nominal power	4000W	5000W	6000W	7000W	8000W	10000W
Max AC apparent power	4000VA	5000VA	6000VA	7000VA	8000VA	10000VA
Max. output current	6,1A	7,6A	9,1A	10,6A	12,1A	15,2A
Nominal AC voltage/range	230V/400V; 310~476V	230V/400V; 310~476V	230V/400V; 310~476V	230V/400V; 310~476V	230V/400V; 310~476V	230V/400V; 310~476V
AC grid frequency/range	50/60Hz; 45~55Hz/55~65 Hz	50/60Hz; 45~55Hz/55~65 Hz	50/60Hz; 45~55Hz/55~65 Hz	50/60Hz; 45~55Hz/55~65 Hz	50/60Hz; 45~55Hz/55~65 Hz	50/60Hz; 45~55Hz/55~65 Hz
Power factor(@nominal power)	1	1	1	1	1	1
Adjustable power factor	0,8leading...0,8lagging	0,8leading...0,8lagging	0,8leading...0,8lagging	0,8leading...0,8lagging	0,8leading...0,8lagging	0,8leading...0,8lagging
THDi	<3%	<3%	<3%	<3%	<3%	<3%
AC grid connection type	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE	3W+N+PE
<b>Stand alone(AC power)</b>						
Max. AC output power	4000W	5000W	6000W	7000W	8000W	10000W
Max. AC apparent power	4000VA	5000VA	6000VA	7000VA	8000VA	10000VA
Rated AC output voltage	230V / 400V	230V / 400V	230V / 400V	230V / 400V	230V / 400V	230V / 400V
AC grid frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
Max. output current	6,1A	7,6A	9,1A	10,6A	12,1A	15,2A
THDv	<3%	<3%	<3%	<3%	<3%	<3%
Switch time	<0,5S	<0,5S	<0,5S	<0,5S	<0,5S	<0,5S
<b>Battery data(DC)</b>						
Battery voltage range	100~550V	100~550V	100~550V	100~550V	100~550V	100~550V
Max charging current	25A	25A	25A	25A	25A	25A
Type of battery	lithium battery	lithium battery	lithium battery	lithium battery	lithium battery	lithium battery
Capacity of battery	5~50kWh	5~50kWh	5~50kWh	5~50kWh	5~50kWh	5~50kWh
<b>Efficiency</b>						
Battery charge/discharge efficiency	97,4%	97,4%	97,4%	97,4%	97,4%	97,4%
<b>Protection devices</b>						
Battery reverse protection	yes	yes	yes	yes	yes	yes
Insulation resistance monitoring	yes	yes	yes	yes	yes	yes
AC surge protection	Type II	Type II	Type II	Type II	Type II	Type II
AC short-circuit protection	yes	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes
Anti-islanding protection	yes	yes	yes	yes	yes	yes
Residual-current monitoring unit	yes	yes	yes	yes	yes	yes
<b>General data</b>						
Dimensions (W / H / D) in mm	505/453/198	505/453/198	505/453/198	505/453/198	505/453/198	505/453/198
Weight	28kg	28kg	28kg	28kg	28kg	28kg
Operating temperature range	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C	- 25°C ... +60°C
Noise emission (typical)	≤ 35 dB(A)	≤ 35 dB(A)	≤ 35 dB(A)	≤ 35 dB(A)	≤ 35 dB(A)	≤ 35 dB(A)
Altitude	3000m	3000m	3000m	3000m	3000m	3000m
Self-Consumption	<13 W	<13 W	<13 W	<13 W	<13 W	<13 W
Inverter Topology	transformerless	transformerless	transformerless	transformerless	transformerless	transformerless
Cooling concept	Natural	Natural	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65
Relative humidity	0 ~100%	0 ~100%	0 ~100%	0 ~100%	0 ~100%	0 ~100%
<b>Features</b>						
AC connection	Cable gland+OT terminal	Cable gland+OT terminal	Cable gland+OT terminal	Cable gland+OT terminal	Cable gland+OT terminal	Cable gland+OT terminal
Battery connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
Display	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED
RS232/RS485/CAN/USB	yes	yes	yes	yes	yes	yes
RF/WIFI/GPRS/4G	opt	opt	opt	opt	opt	opt
Warranty:5 years/10 years	yes/opt	yes/opt	yes/opt	yes/opt	yes/opt	yes/opt