

INVERTERS

SPA 4000-10000TL3 BH-UP

Hybrid inverter · Three-phase · 4 – 10 kW · 6 models


4 – 10 kW

RATED POWER

Three-phase

PHASE

97.6 – 98.2 %

MAX. EFFICIENCY

IP65

PROTECTION CLASS

Parameter	Unit	SPA 4000TL3 BH-UP	SPA 5000TL3 BH-UP	SPA 6000TL3 BH-UP	SPA 7000TL3 BH-UP	SPA 8000TL3 BH-UP	SPA 10000TL3 BH-UP
AC output							
Rated output power	W	4000	5000	6000	7000	8000	10000
Max. apparent power	VA	4000	5000	6000	7000	8000	10000
Rated AC voltage	V	400					
Phase		Three-phase					
Rated AC frequency	Hz	50/60					
Max. AC output current	A	6.1	7.6	9.1	10.6	12.1	15.2
Total harmonic distortion (THDi)	%	<3					
Power factor		0.8 leading to 0.8 lagging					
Backup output power	W	4000	5000	6000	7000	8000	10000
AC grid connection type		3W+N+PE					
Three-phase unbalanced output		100%					
Backup max. apparent power	VA	4000	5000	6000	7000	8000	10000
Backup max. output current	A	6.1	7.6	9.1	10.6	12.1	15.2
Backup nominal AC voltage	V	230/400					
Backup nominal AC frequency	Hz	50/60					
Backup THDv	%	<3					
Switch time	ms	<10					

Parameter	Unit	SPA 4000TL3 BH-UP	SPA 5000TL3 BH-UP	SPA 6000TL3 BH-UP	SPA 7000TL3 BH-UP	SPA 8000TL3 BH-UP	SPA 10000TL3 BH-UP
Battery							
Battery type		Lithium / lead-acid					
Battery voltage range	V	100 – 550					
Max. charge current	A	25					
Max. discharge current	A	25					
Max. charge power	W	4000	5000	6000	7000	8000	10000
Max. discharge power	W	4000	5000	6000	7000	8000	10000
Efficiency							
Max. efficiency	%	97.6	97.8	98	98.2		
European efficiency	%	97	97.2	97.3	97.4		97.5
Protection							
Protection functions		AC surge protection (Type II); battery reverse protection; AC short-circuit protection; ground fault monitoring; grid monitoring; anti-islanding protection; residual-current monitoring unit; insulation resistance monitoring					
General data							
Dimensions (W x H x D)	mm	505 × 453 × 198					
Weight	kg	30					
Operating temperature range	°C	–25 – 60					
Night-time power consumption	W	<13					
Topology		Transformerless					
Cooling		Natural cooling					
Ingress protection (IP rating)		IP65					
Relative humidity	%	0 – 100					
Max. operating altitude	m	3000					
Warranty	years	5 – 10					
AC connection		Connector					
Communication							
Display		LCD + LED					
Communication interfaces		RS485; CAN; USB					
Monitoring		RF / Wi-Fi / GPRS (optional)					
Certifications							
Certifications and standards		CE; IEC 62109; IEC 62040; VDE-AR-N 4105; VDE 0126; VFR 2019; C10/C11; EN 50549; CEI 0-21; CEI 0-16; IEC 62116; IEC 61727; AS/NZS 4777; G98; TOR Erzeuger					

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.
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