



Three-phase household all-in-one energy storage T3 series

MODEL	SO8KH-T3	S10KH-T3	S12KH-T3
Inverter parameters			
Inverter model	SO5KH-T3-INV	S10KH-T3-INV	S12KH-T3-INV
Maximum PV input power	12000Wp	15000Wp	18000Wp
Operating voltage range	60-1100V		
MPPT voltage range/ rated voltage input	200-950V		
Starting voltage	180V		
Rated operating voltage	630V		
Number of MPPTs / Number of input strings per route of MPPT	3/1		
Maximum input current per route of MPPT	16A		
Maximum short-circuit current per route of MPPT	24A		
Battery parameters			
Battery model	ESPro5kWh-BAT		
Battery type	LiFePO4		
Maximum charging/discharging current	26/26A		
Total capacity	5.32kWh	10.64kWh	10.64kWh
Number of battery packs	1	2	2
Nominal voltage	102.4V	204.8V	204.8V
AC output			
Rated output voltage	400V/3L/N/PE		
Rated output power	50Hz/60Hz		
Rated active power	8000W	10000W	12000W
Rated apparent power	8000VA	10000VA	12000VA
Rated power grid output current (@400V)	11.5A	14.4A	17.3A
Total current harmonic distortion rate	<3%(Nominal power)		
AC input			
Rated power grid voltage	400V/3L/N/PE		
Rated power grid frequency	50Hz/60Hz		
Rated input power	16000W	20000W	24000W
Maximum input apparent power	16000VA	20000VA	24000VA
Maximum input current	23.1A	28.8A	34.6A
EPS output			
Rated output voltage	400V/3L/N/PE		
Rated output frequency	50Hz/60Hz		
Rated apparent power	8000VA	10000VA	12000VA
Rated current (@400V)	11.5A	14.4A	17.3A
Maximum switching time	<10ms		
Total voltage harmonic distortion rate (@ linear load)	2%		
General parameters			
Power factor/adjustable range	1/0.8 leading to 0.8 lagging		
Dimension (width/height/depth)	630/202/1036 mm *	630/202/1417 mm **	
Weight	≈90.1±0.1kg *	≈139.1±0.1kg **	
Operating temperature range	-25°C ... +60°C		
Heat dissipation method	Natural convection		
Protection reference level (refer to IEC 60529)	IP65		
Maximum relative humidity	0-95%		
Maximum working altitude	3000m(>2000m power derating)		
Efficiency			
MPPT efficiency	99.9%		
European efficiency/maximum efficiency	97.2%/98.0%	97.9%/98.4%	97.9%/98.4%
Security and protection			
Current surge protection (type II, according to EN/IEC 61643-11) ● Insulation resistance test ● Battery input reverse polarity protection ● Residual current detection ● Anti-islanding protection ●			
All-pole sensitive residual current monitoring device ● Photovoltaic string input reverse polarity protection ● Grounding fault detection ● AC short circuit protection ●			
Features			
User interface	LED&App	Smart ammeter interface	RS485
BMS communication	CAN	Internet communication interface	WIFI/LAN/4G
		Digital output (dry contact point)/number of outputs	/2
		Digital output (dry contact)/ number of inputs	/4
		Integrated power control/output power control	●

*Including 1 inverter and 1 battery box, ** including 1 inverter and 2 battery boxes