



Single-phase household all-in-one energy storage system

MODEL	TO3KH-T2	T3.6KH-T2	TO4KH-T2	TO5KH-T2	TO6KH-T2
Inverter parameters					
Inverter model	T03KH-T2-INV	T3.6KH-T2-INV	T04KH-T2-INV	T05KH-T2-INV	T06KH-T2-INV
Maximum PV input power	5500Wp STC	6180Wp STC	6500Wp STC	7500Wp STC	9000Wp STC
Operating voltage range	40-550V			60-1100V	
MPPT voltage range/ rated voltage input	40-530V			150-950V	
Starting voltage	50V			180V	
Rated operating voltage	380V			630V	
Number of MPPTs / Number of input strings per route of MPPT	2/1			2/1	
Maximum input current per route of MPPT	16A			20A	
Maximum short-circuit current per route of MPPT	20A			30A	
Battery parameters					
Battery model	ET5kWh-BAT				
Battery type	LiFePO4				
Maximum charging/discharging current	100A/100A				
Total capacity	5.22kWh	5.22kWh	5.22kWh	10.44kWh	10.44kWh
Number of battery packs	1	1	1	2	2
Nominal voltage	51.2V				
AC output					
Rated output voltage	230Vac				
Rated output power	50/60Hz				
Rated active power	3000W	3680W	4000W	5000W	6000W
Rated apparent power	3000VA	3680VA	4000VA	5000VA	6000VA
Rated power grid output current (@230V)	13A	16A	17.4A	21.7A	26.1A
Total current harmonic distortion rate	<3%				
AC input					
Rated power grid voltage	230Vac				
Rated power grid frequency	50Hz/60Hz				
Rated input power	6000VA				
Maximum input apparent power	6000VA				
Maximum input current	a.c.26.1A				
Backup output					
Rated output voltage	230V				
Rated output frequency	50Hz/60Hz				
Rated apparent power	5000VA				
Rated current (@230V)	21.7A				
Maximum switching time	≤10 ms				
Total voltage harmonic distortion rate (@ linear load)	<3%				
General parameters					
Power factor/adjustable range	≥0.99/0.8 leading to 0.8 lagging				
Dimension (width/height/depth)	600/202/1004 mm *		600/202/1107 mm **		
Weight	89.9±0.1kg *		137.8±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%/97.6%				
Security and protection					
DC switch ●	Residual current detection ●	Anti-islanding protection ●	AC short circuit protection ●	AC overvoltage protection ●	
Input reverse connection protection ●		Grounding fault detection ●	Protection level (refer to IEC62109-1)/Overvoltage level (refer to IEC62109-1)	I/AC;II;DC:II	
Features					
User interface	LED&App				
Communication method	RS485/CAN/WIFI				
Integration power control/anti-backflow	●				

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