

Technical Datasheet

Model	TH4K-SLA01	TH5K-SLA01	TH6K-SLA01	TH8K-SLA01
	Input DC			
Max.input power	8kW	10kW	12kW	16kW
Max.input voltage	550V			
Rated voltage	360V			
Start-up voltage	60V			
MPPT voltage range	90-450V			
Max.input current	16A/16A		32A/32A	
Max.short circuit current	20A/20A		40A/40A	
MPPT number	2		2	
Max. input strings number	2		4	
	Input Battery			
Battery type	Li-ion/Lead-acid			
Battery Voltage Range	40-60V			
Number of battery input channels	1			
Max. charge / discharge current	190A			
Communication	CAN/RS485			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
	Output AC (Grid side)			
Rated output power	4kW	5kW	6kW	8kW
Max. apparent output power	4.4kVA	5.5kVA	6.6kVA	8.8kVA
Max. rated current	17.4A	21.7A	26.1A	34.8A
Max. output current	19.1A	23.9A	28.7A	38.3A
Grid voltage range	160-300V			
Rated grid voltage	1/N/PE,220V/230V			
Rated grid frequency	50Hz/60Hz			
Power Factor	>0.99 (0.8 leading ... 0.8 lagging)			
THDi	<3%			
	Input AC (Grid side)			
Rated input power	4kW	5kW	6kW	8kW
Max. input power	6.9kW	6.9kW	9.2kW	11.5kW
Max. apparent output power	6.9kVA	6.9kVA	9.2kVA	11.5kVA
Max. input current	30A	30A	40A	50A
Rated input voltage	1/N/PE,220V/230V			
Rated input frequency	50Hz/60Hz			
	Output AC (Back-up)			
Rated output power	4kW	5kW	6kW	8kW
Max. output current	19.1A	23.9A	28.7A	38.3A
Max.output power	2 times of rated power, 10s			
Back-up switch time	≤4ms			
Rated output voltage	220V/230V			
Rated frequency	50Hz/60Hz			
THDv	<3%			
	Efficiency			
Max. efficiency	97.70%			
EU efficiency	96.70%			
MPPT Efficiency	99.80%			
	Protection			
Integrated DC switch	Yes			
DC rever-polarity protection	Yes			
Anti-islanding protection	Yes			
Short circuit protection	Yes			
Output over current protection	Yes			
DC Surge protection	Type II			
AC Surge protection	Type II			
Insulation impedance detection	Yes			
Ground Fault Monitoring	Yes			
Residual leakage current detection	Yes			
Temperature protection	Yes			
AC Over voltage Protection	Yes			
DC Over current Protection	Yes			
24-hour load monitoring	Yes			
Antibackflow	Yes			
Parallel	Yes			
	General Data			
Dimensions (W*H*D)	350*560*237mm			
Weight	25kg			
Self consumption(night) (Rated voltage)	≤20W			
Operating temperature range	-40 to +60°C			
Cooling concept	Smart forced air Cooling			
Max. operation altitude	4000m			
Relative humidity	0-100%			
Ingress protection	IP66			
Topology Structure	Transformerless			
Grid connection stadard	IEC 61727/IEC 62116,IEC 61683			
Safety/EMC standard	IEC/EN 61000-6-1/3, IEC/EN 62109-1, IEC/EN 62109-2			
Type of DC terminal	MC4 (Max. 6mm ²)			
Battery connection type	Terminal			
Type of AC terminal (Back-up)	Terminal			
Type of AC terminal (Grid side)	Terminal			
	Display&Communication			
Display	LCD+Bluetooth+APP			
Communication Interface	RS485 / CAN , Wi-Fi +Bluetooth			