

TSUN Hybrid Inverter



TSOL-H3.0K/3.6K/4.0K/4.6K/5.0K/6.0K-S



High-yield

- Real time precise MPPT algorithm for max power generation.
- Wide input voltage operation range.
- Independent dual MPPT for more flexible design.

Reliable and Safe

- High efficiency, less maintenance.
- High frequency isolation between battery & PV/grid.
- Advanced BMS technology for better battery performance.
- Low battery voltage, much safer.

Easier Operation

- Flexible installation site selection due to IP65.
- LCD Display, easy-to-read display.
- Easy monitoring by mobile phone (APP) & PC (web).

Intelligent

- Reactive power capability.
- Limits AC output when grid frequency/voltage is too high or too low.
- Built-in anti-reflex function (optional).

CE VDE 0126 VDE 4105 CEI 0-21 G98 G99 IEC/EN 62109



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Technical Data

Model	TSOL-H3.0K-S	TSOL-H3.6K-S	TSOL-H4.0K-S	TSOL-H4.6K-S	TSOL-H5.0K-S	TSOL-H6.0K-S
PV Input Data (DC)						
Max. PV Input Power (W)	4500	5400	6000	6900	7500	9000
Max. PV Input Voltage (V)				600		
Startup Voltage (V)				120		
MPP Voltage Range (V)				90-550		
No. of MPPTs				2		
Max. Number of PV Strings per MPPT				1		
Max. PV Input Current (A)				12		
DC Switch				Integrated		
AC Input and Output Data (AC)						
Max. AC Output Power (VA)	3000	3680	4000	4600	5000	6000
Nominal AC Output Power (VA)	3000	3680	4000	4600	5000	6000
Max. AC Output Current (A)	14.4	16	19.2	22	24	26.1
Nominal AC Voltage (V)※				L / N / PE , 220 or 230 or 240		
AC Voltage Range (V)※				180-280		
Nominal Frequency (Hz)※				50 or 60		
Frequency Range (Hz)※				45 - 55 or 55 - 65		
THD				<3%		
Power Factor				0.8 leading - 0.8 lagging		
Protection						
AC Short Circuit Protection				YES		
Overload Protection				YES		
DC OV/UV Protection				YES		
AC OV/UV Protection				YES		
AC OF/UF Protection				YES		
Peak-to-through Period Setting				YES		
Battery Data						
Battery Type				Li-ion Battery		
Battery Voltage (V)				48		
Battery Voltage Range (V)				42 - 58.5		
Max. Charge / Discharge Current (A)				100 / 100		
System Data						
Max. Efficiency / European Efficiency				97.6% / 97%		
Max. Discharge Efficiency				94.60%		
Ingress Protection Rating				IP65		
Operating Ambient Temperature Range (C)				-25 to +60 (>45 C derating)		
Ambient Humidity				0 - 100%, non-condensing		
Cooling Method				Natural Convection		
Max. Operating Altitude (m)				4000 (>3000m derating)		
Nosie (dB)				<29		
Display				LCD		
Communication				WIFI , GPRS , Ethernet		
Dimensions W*H*D (mm)				470 * 470 * 190		
Weight (kg)				23		
Backup Data						
Nominal Voltage (V)				220 or 230 or 240		
Frequency (Hz)				50 or 60		
Nominal Output Power				5000		
Peak Output Apparent Power (VA)				6000, 10s		

※ The AC voltage and frequency range may vary depending on specific country grid.

