

Three Phase Hybrid Inverter

THH-8KW/10KW/12KW-EU



THH series is a high efficiency, long life high voltage hybrid inverter. Ensuring more solar energy absorption makes it one of the most productive inverters on the market. Up to 4 strings MPPT trackers are able to guarantee optimal energy production even in shadow.

- High Flexibility: Supports single-phase 100% unbalanced load operation off-grid, adapting to various load scenarios, Switching Time of On/off-grid <10 ms
- Easy Access: Accessible via WiFi and the web
- Diverse Modes : Various application modes to accommodate different battery packs, photovoltaic panels, and loads
- Dual MPPT Trackers: Max Efficiency Up to 99.90%, 150V-950V Ultra-wide Input Operating Voltage Range
- Diverse Interface: Includes interfaces such as a lithium battery BMS, communication card and a WiFi card
- High Safe: Comprehensive 360-degree security from hardware to software, and Built in surge protection
- Multiple Working Mode: Photovoltaic/ Battery/AC Priority
- IP65: Fanless design for a long lifespan



Hybrid



EURO
EN50549



10 Years
Design Life



ONESUN

www.onesunpv.com

Technical Data

Model	THH-8KW-EU	THH-10KW-EU	THH-12K-EU
INVERTER INPUT/OUTPUT(GRID)			
Rated Power(Input/Output)	12 kW/8 kW	14kW/10 kW	16 kW/12 kW
Rated Voltage	380/400V,3W+N+PE		
Rated Frequency	50 Hz		
Power Factor Range	0.8 leading~0.8 lagging		
Switch Time	<10 ms		
Max. Continuous Current (Input/Output)	17.4A/12.8A	20.3A/15.9A	23.2A/19.1A
Max. Output Overcurrent Protection	400Va.c./60Aa.c.		
BATTERY			
Battery Type	Lithium/Lead-acid		
Battery Voltage Range	125~800V		
Rated Battery Voltage	200V	250V	300V
Max. Charge Current	40 A		
Max. Discharge Current	40A		
Reverse Connect Protection	Yes		
PVINPUT			
No. of MPPT Tracker/Strings	2/1+1		
Max. PVArray Power	12 kW	15kW	18kW
Max. DC Voltage	1000Vd		
MPPT Voltage Range	150~950V		
Start-up Voltage	200V		
Max. Input Current	16+16A		
Isc PV (Absolute Maximum)	24+24A		
AC OUTPUT(EPS)			
EPS Rated Output Voltage	380/400V,3W+N+PE		
EPS Rated Output Frequency	50 Hz		
EPS Rated Output Active Power	8 kW	10 kW	12 kW
EPS Rated Output Apparent Power	8 kVA	10 kVA	12 kVA
EPS Rated Output Current	11.6A	14.5A	17.4A
Overload Capacity(Off Grid)	110% 30s /120% 10s /150% 2s		
EFFICIENCY			
MPPT Efficiency	99.90%		
Euro-efficiency	97.50%		
Max. Efficiency	98%		
PROTECTION & FEATURE			
Insulation Monitoring	Yes		
Residual Current Monitoring	Yes		
Parallel Function	Yes		
Protection Degree	IP65		
Other Protection	Output over voltage,Output over current,Short circuit,Surge,Temperature,Anti-islanding		
GENERAL PARAMETER			
Warranty	5 years		
Interface	CAN/RS485/Bluetooth/WiFi/4G/DRM(Optional)		
Display	LED+APP		
Storage Temperature	-25°C~+60°C		
Operating Temperature	-25°C~+60°C(Linely derating to 60%when exceed+45°C~+60°C)		
Humidity	0~100%(No-condensing)		
Operating Altitude	4000 m(>2000 m Derating)		
Noise	<35dB		
Machine Dimensions(W*H*D)	530*600*210 mm		
Machine Weight/N.W.	35kg		
Certifications	CEI0-21,EN 50549-1,VDE-AR-N4105,UNE 217002,IEC62109-1/2,IEC61000,NTS631		