

# Three Phase Hybrid Inverter

THH-30KW/40KW/50KW/60KW-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.

- All silicon carbide structure: efficient operation; Lightweight design, improve energy conversion efficiency and equipment stability
- High efficiency: 1.67 times PV power. 4 strings of MPPT, 8 strings of 20A PV input current, MPPT efficiency up to 99.9%
- Various modes: cold start, off-grid, economic mode; Generator access, real-time remote maintenance
- 2 independent battery input: 100A\*2 maximum charge and discharge current; The parallel current of one cabinet can reach 200A
- IP66 protection: Ensure reliable operation of the equipment in harsh industrial and commercial environments
- Support parallel connection: up to 6 groups of parallel machines, providing flexible expansion solutions for large capacity requirements
- Multiple Working Mode: Photovoltaic/ Battery/AC Priority



Hybrid



EURO  
EN50549

AUS ESP ZA SA  
GER AUT ITA UK  
Grid Standards

10 Years  
Design Life



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# Technical Data

Model	THH-30KW-EU	THH-40KW-EU	THH-50K-EU	THH-60K-EU
<b>INVERTER INPUT/OUTPUT(GRID)</b>				
Rated Power(Input/Output)	138 kW/30 kW	138 kW/40 kW	138 kW/50 kW	138 kW/60 kW
Rated Voltage	380/400VAC(3W+N+PE)			
Rated Frequency	50 Hz/60 Hz			
Power Factor Range	0.8 leading~0.8 lagging			
Switch Time	<20 ms			
Max.Continuous Current (Input/Output)	200A/48A	200A./64A	200A/80A	200A/96A
Max.Output Overcurrent Protection	65A	87A	108A	130A
<b>BATTERY</b>				
Battery Type	Lithium/Lead-acid			
Battery Voltage Range	150~800Vd.c.			
Rated Battery Voltage	150Vd.c	200Vd.c	250Vd.c	300Vd.c
Max.Charge Current	2*100Ad.c			
Max.Discharge Current	2*100Ad.c			
Reverse Connect Protection	Yes			
<b>PVINPUT</b>				
No.of MPPT Tracker/Strings	4/2+2+2+2			
Max.PVArray Power	68 kW	68 kW	100 kW	100 kW
Max.DC Voltage	1000Vd.c			
MPPT Voltage Range	150~950Vd.c			
Start-up Voltage	125V d.c			
Max.Input Current/sring	8*20Ad.c			
Isc PV(Absolute Maximum)/sring	8*30Ad.c			
<b>ACOUTPUT(EPS)</b>				
EPS Rated Output Voltage	380/400Va.c,3W+N+PE			
EPS Rated Output Frequency	50Hz/60 Hz			
EPS Rated Output Active Power	30 kW	40 kW	50 kW	60 kW
EPS Rated Output Apparent Power	30 kVA	40 kVA	50 kVA	60kVA
EPS Rated Output Current	43Aa.c.	58Aa.c.	72Aa.c.	87Aa.c.
Overload Capacity(Off Grid)	110%30s/120%10s/150%0.2s			
<b>EFFICIENCY</b>				
MPPT Efficiency	99.90%			
Euro-efficiency	97.50%			
Max.Efficiency	98.5%			
<b>PROTECTION&amp;FEATURE</b>				
Insulation Monitoring	Yes			
Residual Current Monitoring	Yes			
Parallel Function	Yes,up to 6pcs			
Protection Degree	IP66			
Other Protection	Ground Fault Current MonitoringEarth Fault Detection,Residual Current(RCD)Detection			
<b>GENERAL PARAMETER</b>				
Warranty	5 years			
Display	LED+APP			
Interface	RS485/WiFi/CAN/DRM(Optional:Bluetooth/LAN/Meter)			
Storage Temperature	-25°C~+60°C			
Operating Temperature	-25°C~+60°C(>+45°CDerating)			
Humidity	0%~95%(Non-condensing)			
Operating Altitude	4000m(>2000 m Derating)			
Noise	<65 dB			
Machine Dimensions(W*H*D)	544*880*278 mm			
Machine Weight/N.W.	80kg			
Certifications	CEI 0-21,EN 50549-1,VDE-AR-N 4105,UNE 217002,NTSTYPEA,G99,AS/NZS4777.2			