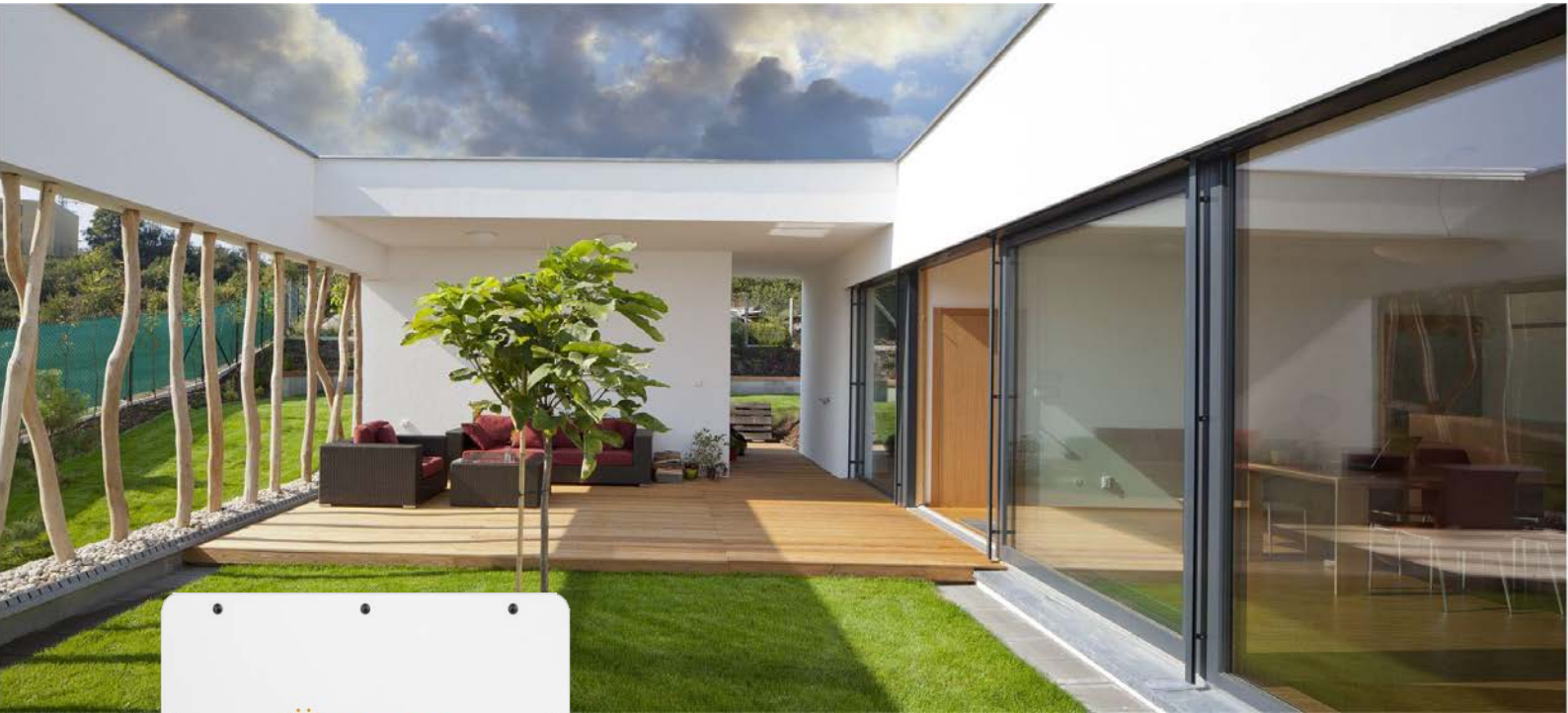









Three Phase Hybrid Inverter

THH-30KW/40KW/50KW-EU-1



-  100% three-phase unbalanced output, with each phase capable of delivering up to 50% of the rated power.
-  Ac coupling to retrofit existing solar system.
-  Max. 10 pcs parallel for on-grid and on-grid.
-  Support multiple batteries parallel.
-  High voltage battery, higher efficiency
-  6 time periods for battery charging/discharging
-  Support storing energy from diesel generator



Technical Data

Model	THH-30KW-EU-1	THH-40KW-EU-1	THH-50KW-EU-1
PV Input			
Maximum DC Input Power (W)	39000	52000	65000
Maximum DC Input Voltage (V)		1000	
Start-up Voltage (V)		180	
MPPT Range (V)		150-850	
Full Load DC Voltage Range (V)	360-850	360-850	450-850
Rated DC Input Voltage (V)		600	
Input Current (A)	36+36+36		36+36+36+36
Maximum DC Short Circuit Current (A)	55+55+55		55+55+55+55
Number of MPPTs	3		4
Number of MPPT strings per circuit	2+2+2		2+2+2+2
AC Output			
Rated AC Output Power (W)	30000	40000	50000
Maximum AC Output Power (W)	33000	44000	55000
AC Output Current (A)	45.6	60.8	76
Maximum AC Output Current (A)	50.2	66.9	83.6
Three-phase unbalanced output current (A)	60	70	83.3
Maximum Continuous AC Current (A)		200	
Peak Power (off-grid)	1.5 times rated power, 10S		
Generator Input/Smart Load/AC Even	45.5 / 200 / 45.5	60.7 / 200 / 60.7	75.8 / 200 / 75.8
Power Factor	0.8leading-0.8lagging		
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac 230/400Vac		
Grid Type	Three Phase		
Current Harmonics	<3% (of nominal power)		
Grid DC Component	<0.5% In		
Battery			
Battery voltage range (V)		160-800	
Maximum charge current (A)		50+50	
Maximum discharge current (A)		50+50	
Number of Battery Inputs		2	
Li-Ion Battery Charging Strategy		Adaptive BMS	
Efficiency			
Maximum Efficiency		97.6%	
European Efficiency		97.0%	
MPPT Efficiency		99.9%	
Protection			
Islanding protection		yes	
DC reverse polarity protection		yes	
Insulation impedance detection		yes	
Leakage current monitoring protection		yes	
Output overcurrent protection		yes	
Output short circuit protection		yes	
Surge protection		yes	
Arc fault circuit interruption (AFCI optional)		yes	
Overcurrent protection		DC Type II/AC Type III	
Certifications and Standards			
Grid Approvals	IEC61727/62116, EN50549-1		
Safety/EMC Standards	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
Other Parameters			
Operating Ambient Temperature Range (°C)	-25 °C ~ +60 °C		
Cooling Method	Natural air cooling		
Noise Index (dB)	<45 dB		
BMS Communication Port	CAN		
Monitoring Method	WIFI , APP		
Dimensions ((W / H / D))	527×894×294 (excluding connectors and bracket)		
Weight	80kg		
Protection Class	Ip65		
Installation	Wall-mounted		
Warranty	5 years (10 years optional)		