



SOLARWAVE SERIES

THREE-PHASE HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS



high efficiency



back-up
power supply



up to 3 roof
orientations



modular space
saving design



quick and easy
installation



everything needed
from one source

HIGH PERFORMANCE

- < 10ms UPS-level switching
- Three MPPTs, Max.36A input per MPPT
- Up to 98.1% operating efficiency
- Optimized for high-power solar panel
- Max.150% PV oversizing
- 150% Peak backup power for 10 seconds

UNIQUE FLEXIBILITY

- Support 100% unbalanced loads
- Supports microgrid and generator functions
- Supports up to two high-voltage battery groups per inverter

USER FRIENDLY

- Convenient remote monitoring via App and Cloud
- Flexible configuration, time-efficient and labor-saving
- Remote diagnosis & update

PREMIUM DESIGN

- Compact and lightweight hardware design
- IP66 Design: suitable for indoor and outdoor
- Optional AFCI & RSD function

EXPANDABLE SOLUTION

- Support AC retrofit application
- Support up to 3 units parallel connection

MODEL

RHT15.0KHR-EU**RHT20.0KHR-EU****RHT25.0KHR-EU****RHT30.0KHR-EU**

PV INPUT

Max. Recommended DC Power [W]	30,000	40,000	45,000	45,000
Max. DC Voltage [V]	1,000			
Max. Input Current [A]	36 / 36 / 36			
Max. Short Circuit Current [A]	46 / 46 / 46			
MPPT Voltage Range [V]	180 - 960			
Start-up Voltage [V]	200			
No. of MPP Trackers	3			
Strings Per MPP Tracker	2			
PV Over Management	200%	200%	180%	150%

BATTERY

Battery Type	LiFePO ₄			
Battery Voltage [V]	180 - 800			
Max. Charge/ Discharge Power [W]	30,000 / 15,000	30,000 / 20,000	30,000 / 25,000	30,000 / 30,000
Max. Charge/ Discharge Current [A]	50 / 50			
Communication Interface	CAN			

AC OUTPUT

Max. AC Output Apparent Power [VA]	16,500	22,000	27,500	33,000
Rated AC Output Power [W]	15,000	20,000	25,000	30,000
Max. AC Output Current [A]	25.0	33.4	41.7	50
Rated AC Output Current [A]	22.8	30.3	37.9	45.5
Rated AC Voltage [V]	3 / N / PE, 220 / 380, 230 / 400			
Grid Frequency [Hz]	50 / 60			
Adjustable Power Factor [cosφ]	0.8 leading ~ 0.8 lagging			
Output THDi (@Rated Output)	< 3%			

AC INPUT

Max. AC Input Power [VA]	30,000	40,000	41,500	41,500
Max. AC Input Current [A]	45.5	60.3	63.0	63.0
Rated AC Voltage [V]	3 / N / PE, 220 / 380, 230 / 400			
Grid Frequency [Hz]	50 / 60			

BACKUP OUTPUT (WITH BATTERY)

Rated Power [W]	15,000	20,000	25,000	30,000
Rated Voltage[V]	3 / N / PE, 220 / 380, 230 / 400			
Rated Frequency [Hz]	50 / 60			
Rated Current [A]	22.8	30.3	37.9	45.5
Output THDv (@Linear Load)	< 3%			
Automatic Switch Time [ms]	< 10			
Peak Apparent Power, Duration [VA, 10s]	22,500	30,000	37,500	45,000

EFFICIENCY

Max. Efficiency	98.10%			
Euro-Efficiency [%]	97.70%			
Max. Battery Charge/Discharge Efficiency	97.60%			

GENERAL DATA

Dimensions (W*H*D) [mm]	630 x 514 x 239			
Weight [kg]	45.32	45.32	47.00	47.00
Display	LED + LCD			
Communication	RS485, USB Update, 4 × DI, 2 × DO, Optional: WiFi or 4G or Ethernet			
Ambient Temperature Range [°C]	-30 ~ +60			
Relative Humidity	0 ~ 100%			
Operating Altitude [m]	< 2000			
Night Self-consumption [W]	< 15			
Topology	Non-isolated			
Cooling	Natural	Natural	Fan	Fan
Ingress Protection	IP66			

CERTIFICATIONS & STANDARDS

Grid Regulation	IEC61727/IEC62116, EN50549-1/EN50549-10, EN50549-PL, EN50549-CZ, VDE-AR-N 4105, CEI 0-21
Safety Regulation	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2
EMC	EN / IEC 61000-6-1, EN / IEC 61000-6-2, EN / IEC 61000-6-3, EN / IEC 61000-6-4