



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.20A input per MPPT
- Up to 98.8% operating efficiency
- Optimized for high-power solar panel
- Max.200% PV oversizing
- 200% Peak backup power for 60 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 10 units parallel connection

MODEL	RHT5.0K HE-EU	RHT6.0K HE-EU	RHT8.0K HE-EU	RHT10.0K HE-EU	RHT12.0K HE-EU	RHT15.0K HE-EU
PV INPUT						
Max. Recommended DC Power [W]	10,000	12,000	16,000	20,000	24,000	30,000
Max. DC Voltage [V]	1,000					
Max. Input Current [A]	20 / 20 / 20	20 / 20 / 20	20 / 20 / 20	20 / 20 / 40	20 / 20 / 40	20 / 20 / 40
Max. Short Circuit Current [A]	30 / 30 / 30	30 / 30 / 30	30 / 30 / 30	30 / 30 / 60	30 / 30 / 60	30 / 30 / 60
MPPT Voltage Range [V]	100 - 900					
Start-up Voltage [V]	50					
No. of MPP Trackers	3					
Strings Per MPP Tracker	1 / 1 / 1	1 / 1 / 1	1 / 1 / 1	1 / 1 / 2	1 / 1 / 2	1 / 1 / 2
PV Over Management	200%					
BATTERY						
Battery Type	LiFePO ₄					
Battery Voltage [V]	80 - 800					
Rated. Charge/ Discharge Current [A]	50 / 50					
Max. Charge/ Discharge Current [A]	60 / 60					
Communication Interface	RS485, CAN					
AC OUTPUT (On-Grid Side)						
Max. AC Output Apparent Power [VA]	5,000	6,000	8,000	10,000	12,000	15,000
Rated AC Output Power [W]	5,000	6,000	8,000	10,000	12,000	15,000
Max. AC Output Current [A]	7.2	8.7	11.6	14.5	17.4	21.7
Rated AC Output Current [A]	7.2	8.7	11.6	14.5	17.4	21.7
Rated AC Voltage [V]	3 / N / PE, 220 / 380, 230 / 400, 240 / 415, 312 ~ 520					
Grid Frequency [Hz]	50 / 60					
Adjustable Power Factor [cosφ]	> 0.99, 0.8 leading ~ 0.8 lagging					
Output THDi (@Rated Output)	< 3%					
AC OUTPUT (Back-Up)						
Rated Power [W]	5,000	6,000	8,000	10,000	12,000	15,000
Peak Apparent Power for 60s [W]	10,000	12,000	16,000	20,000	24,000	30,000
Rated Voltage[V]	3 / N / PE, 220 / 380, 230 / 400, 240 / 415, 312 ~ 520					
Rated output current[A]	7.2	8.7	11.6	14.5	17.4	21.7
Rated Frequency [Hz]	50 / 60					
Output THDv (@Linear Load)	< 3%					
Automatic Switch Time [ms]	< 10					
EFFICIENCY						
Max. Efficiency	98.80%					
Euro-Efficiency [%]	98.30%					
GENERAL DATA						
Dimensions (W*H*D) [mm]	507 x 522 x 194					
Weight [kg]	26					
Communication	WiFi, 4G, GPRS, Bluetooth, RS485, CAN					
Ambient Temperature Range [°C]	-25 ~ +60					
Relative Humidity	0 ~ 100%					
Operating Altitude [m]	< 3000					
Topology	Non-isolated					
Cooling	Fan					
Ingress Protection	IP66					
CERTIFICATIONS & STANDARDS						
Grid Regulation	AS/NZS4777:2020, EN50549-10:2022, G98:2021, G99:2021, NC RFG, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, CEI0-16, RD1699, NA/EEA, C10:2019, PPDS:2021, Tor+R25, IEC61683, IEC61727&621611727/IEC62116, EN50549-1/EN50549-10, EN50549-PL, EN50549-CZ, CEI 0-21					
Safety / EMC Regulation	IEC-62109-1/-2, IEC-61000-6-1/-2/-3, NB/T32004					