



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	RHT20.0K HE-EU
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PV INPUT

Max. Recommended DC Power [W]	10,000	12,000	16,000	20,000	24,000	30,000	40,000
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	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	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	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	20,000
Rated AC Output Power [W]	5,000	6,000	8,000	10,000	12,000	15,000	20,000
Max. AC Output Current [A]	7.2	8.7	11.6	14.5	17.4	21.7	29.0
Rated AC Output Current [A]	7.2	8.7	11.6	14.5	17.4	21.7	29.0
Rated AC Voltage [V]	3L+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	20,000
Peak Apparent Power for 60s [W]	10,000	12,000	16,000	20,000	24,000	30,000	40,000
Rated Voltage[V]	3L+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	29.0
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%, non-condensing
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