

# RHT-4~12K-25

## Three-phase Hybrid Inverter

4kW / 5kW / 6kW / 8kW / 10kW / 12kW



### Optimal power and storage

- 98.2% maximum efficiency
- 15A PV input current per string, 2 MPP trackers
- 110% unbalanced output

### Strong load and back-up

- 110% continuous AC output overloading
- 200% maximum back-up output overloading @60s
- 150% DC oversizing

### Convenient installation and operation

- Plug & play terminals for easy wiring
- I-light, power and alarm indicator
- OLED display and app for setting and data management

### Flexible design and use

- 135~750V wide battery voltage range
- IP65 for indoor and outdoor installation
- Compact size and elegant appearance

Technical Data

RHT-4K-25    RHT-5K-25    RHT-6K-25    RHT-8K-25    RHT-10K-25    RHT-12K-25

PV Input						
Recommended maximum input power	6.0 kW	7.5 kW	9.0 kW	12.0 kW	15.0 kW	18.0 kW
Start-up voltage	135 V					
Maximum DC input voltage	1000 V					
Rated DC input voltage	620 V					
MPPT voltage range	120~950 V			200~950 V		
Number of MPP trackers	2					
Number of DC inputs per MPPT	1/1					
Maximum input current	15/15					
Maximum short-circuit current	20/20					

Battery Side	
Battery type	Lithium Battery (with BMS)
Battery voltage range	135~750 V
Maximum charging/discharge current	25/25 A

Grid Side						
Rated output power	4.0 kW	5.0 kW	6.0 kW	8.0 kW	10.0 kW	12.0 kW
Maximum output apparent power	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA	11.0 kVA	13.2 kVA
Maximum input apparent power	8.0 kVA	10.0 kVA	12.0 kVA	16.0 kVA	16.5 kVA	16.5 kVA
Maximum charging power of battery	4.0 kW	5.0 kW	6.0 kW	8.0 kW	10.0 kW	12.0 kW
Rated AC voltage	3L/N/PE; 220/380V;230/400V;240/415V					
Rated AC frequency	50/60 Hz					
Maximum output current	6.7 A	8.3 A	10.0 A	13.3 A	16.5 A	20.0 A
Power factor	0.8 leading ... 0.8 lagging					
Maximum total harmonic distortion	<3% @Rated output power					
DCI	<0.5%In					

Back-up Side						
Rated output power	4.0 kW	5.0 kW	6.0 kW	8.0 kW	10.0 kW	12.0 kW
Maximum output apparent power	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA	11.0 kVA	13.2 kVA
Maximum output current	6.7 A	8.3 A	10.0 A	13.3 A	16.5 A	20.0 A
UPS switching time	<10 ms					
Rated output voltage	3L/N/PE; 220/380V;230/400V;240/415V					
Rated output frequency	50/60 Hz					
Voltage harmonic distortion	<3% @Linear load					

Efficiency		
Maximum efficiency	98.1%	98.2%
European efficiency	97.3%	97.4%

General Data	
Protection	DC reverse polarity protection; Battery input reverse connection protection; Insulation resistance protection; Surge protection; Over-temperature protection; Residual current protection; Islanding protection; AC over-voltage protection; Overload protection; AC short-circuit protection
Over voltage category	PV: II Main: III
Ingress protection	IP65
Standby self-consumption	<15 W
Topology	Transformerless
Operating temperature range	-30~60°C
Relative humidity	0~100%
Maximum working altitude	3000 m (>3000 m derating)
Cooling concept	Natural convection
Noise level	<25 dB
Display	OLED & LED
Communication	CAN, RS485, WiFi/LAN (Optional)
Dimensions (WxDxH)	534x210x418 mm
Weight	26 kg