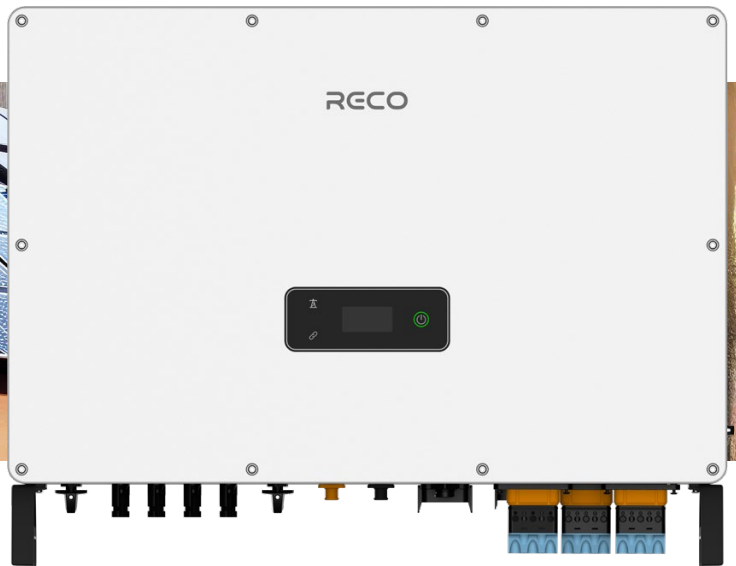


RHT-25~50K-100

Three-phase Hybrid Inverter

25kW / 30kW / 36kW / 40kW / 50kW



Optimal power and storage

- 98.4% maximum efficiency
- 30A PV input current, 2 MPP trackers
- 100% unbalanced output
- 100A charge/discharge current

Strong load and back-up

- 110% continuous AC output overloading
- 120% maximum back-up output overloading @60s
- 10ms UPS-level switching
- 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
- WiFi configuration via app

Flexible design and use

- 135~750V wide battery voltage range
- IP65 for indoor and outdoor installation
- Support paralleling up to 10 devices
- Compact size and elegant appearance

Technical Data
RHT-25K-100
RHT-30K-100
RHT-36K-100
RHT-40K-100
RHT-50K-100

PV Input					
Recommended maximum input power	37.5 kW	45.0 kW	54.0 kW	60.0 kW	75.0 kW
Start-up voltage	135 V				
Maximum DC input voltage	1000 V				
Rated DC input voltage	620 V				
MPPT voltage range	200~850 V				
Number of MPP trackers	4				
Number of DC inputs per MPPT	2				
Maximum input current	30x4 A				
Maximum short-circuit current	40x4 A				
Battery Side					
Battery type	Lithium Battery (with BMS)				
Battery voltage range	135~750 V				
Maximum charging/discharge current	100/100 A				
Grid Side					
Rated output power	25.0 kW	30.0 kW	36.0 kW	40.0 kW	50.0 kW
Maximum output apparent power	27.5 kVA	33.01 kVA	39.6 kVA	44.0 kVA	55.0 kVA
Maximum input apparent power	30.0 kVA	36.0 kVA	43.5 kVA	48.0 kVA	60.0 kVA
Maximum charging power of battery	25.0 kW	30.0 kW	36.0 kW	40.0 kW	50.0 kW
Rated AC voltage	3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC frequency	50/60 Hz				
Maximum output current	42.0 A	50.0 A	60.0 A	66.0 A	83.0 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	25.0 kW	30.0 kW	36.0 kW	40.0 kW	50.0 kW
Maximum output apparent power	27.5 kVA	33.0 kVA	39.6 kVA	44.0 kVA	55.0 kVA
Maximum output current	42.0 A	50.0 A	60.0 A	66.0 A	83.0 A
UPS switching time	<20 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				
Generator Side					
Maximum input apparent power	30.0 kVA	36.0 kVA	43.5 kVA	48.0 kVA	60.0 kVA
Maximum charging power of battery	25.0 kW	30.0 kW	36.0 kW	40.0 kW	50.0 kW
Rated AC voltage	3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC frequency	50/60 Hz				
Efficiency					
Maximum efficiency	98.8%				
European efficiency	98.3%				
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	Smart fan				
Noise level	<50 dB				
Display	OLED & LED				
Communication	CAN, RS485, WiFi/LAN (Optional)				
Dimensions (WxDxH)	800x300x620 mm				
Weight	72 kg				