VHT-30K/50K-100-H

30A

100%

100A

PV Input Current

Unbalanced Output

Charge/Discharge

Commercial | Three Phase | HV Battery | 4 MPPTS

Features

Maximized Energy Harvesting

- 110% unbalanced output enhances self-consunption
- 100A charging/discharging for efficiency energy transfer
- Continuous 110% AC overloading sustains power
- Starts at 135V for more generation time

Engineered for Versatility

- Max.10 pcs parallel for on-grid operation and max.4 pcs parallel for off-gird operation
- 120% max backup @60s handles overloads
- IP65 protects both indoors and outdoors

Intelligent Energy Dynamics

- Five work modes for diverse use
- Six charge/discharge intervals optimize control
- Centralized smart management for efficiency
- Supports diesel generators for diverse energy sourcing

Simplified Interaction

- Remote upgrades maintain system health
- OLED and App for easy control

VHT-30K/50K-100-H Hybrid Inverter



Technical Specifications

| Mada | V/IIT 201/ 400 II | VIIIT FOIL 400 II | |
|---|---|-------------------------------|--|
| Mode PV Input | VHT-30K-100-H | VHT-50K-100-H | |
| Recommended Max.input power [kW | 45.0 | 75.0 | |
| Start-up voltage [V | | 135 | |
| Max.DC input voltage* [V | | 1000* | |
| Rated DC input voltage [V | | 620 | |
| MPPT voltage range* [V | | 200-850* | |
| No.of MPP trackers | 4 | 4 | |
| No.of DC inputs per MPPT | 2 | 2 | |
| Max.input current [A | | 30x4 | |
| Max.short-circuit current [A | | 40x4 | |
| Battery Side | TOAT | 70.4 | |
| Battery type | Lithium Battery (with BMS) | | |
| Battery voltage range [V | | 135-750 | |
| Maximum charging/discharge current [A | 100/100 | | |
| Grid Side | o danem [r] 100/100 | | |
| Rated output power [kw | 30.0 | 50.0 | |
| Max.output apparent power [kVA | | 55.0 | |
| Max.input apparent power** [kVA | | 60.0 | |
| Max.charging power of battery [kW | | 50.0 | |
| Rated AC voltage | | V;230/400V;240/415V | |
| Rated AC frequency [Hz | · | 50/60 | |
| Max.output current [A | | 83.0 | |
| Power factor | | g0.8 lagging | |
| Max.total harmonic distortion | <3%@Rated output power | | |
| DCI | <0.5%ln | <0.5%ln | |
| Back-up Side | 10.07011 | -0.07011 | |
| Rated output power [kW | 30.0 | 50.0 | |
| Max.output apparent power [kVA | | 55.0 | |
| Max.output current [A | | 83.0 | |
| UPS switching time | <20ms | <20ms | |
| Rated output voltage | 3L/N/PE;220/380V;230/400V;240/415V | | |
| Rated output frequency [Hz | | 50/60 | |
| Voltage harmonic distortion | | Linear load | |
| Generator Side | | | |
| Max.intput apparent power** [kVA | 36.0 | 60.0 | |
| Max.charging power of battery [kW | | 50.0 | |
| Rated AC voltage | | V;230/400V;240/415V | |
| Pated AC frequency [Hz | | 50/60 | |
| Efficiency | | | |
| Max.efficiency | 98.8% | 98.8% | |
| European efficiency | 98.3% | 98.3% | |
| Protection | | | |
| DC reverse polarity protection | • | | |
| Battery input reverse connection protection | Integrated | | |
| Insulation resistance protection | Integrated | | |
| Surge protection | Integrated | | |
| Over-temperature protection | Integrated | | |
| Residual current protection | Inte | Integrated | |
| Islanding protection | Integrated | | |
| AC over-voltage protection | Integrated | | |
| Overload protection | Integrated | | |
| AC short-circuit protection | Integrated | | |
| General Data | | | |
| Over voltage category PV:II Main:III | | | |
| Dimensions [W×H×D mm | 800× | 800×620×300 | |
| Weight [KG | 72.0 | | |
| Protection degree | | P65 | |
| Standby self-consumption [W | <15 | | |
| Topology | Transformerless | | |
| Operating Temperature Range [°C | -30~60 | | |
| Relative Humidity [% | 0~100 | | |
| Operating Altitude [m | 3000 (>3000m derating) | | |
| Cooling | Smart fan | | |
| Noise Level [dB | | <50 | |
| Display | OLED & LED | | |
| Communication | CAN,RS485,W | CAN,RS485,WiFi/LAN (Optional) | |
| | | | |