VHT-(30/50)K-100-H

High Voltage Three-Phase Hybrid Inverter



Product Highlights

- 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
- Max.10 pcs parallel for on-grid operation and max.4 pcs parallel for off grid operation
- 120% max backup @60s handles overloads
- IP65 protects both indoors and outdoors
- Supports diesel generators for diverse energy sourcing

Model	VHT-30K-100-H	VHT-50K-100-H
PV Input		
Recommended Max.input power(kW)	45	75
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	
No.of DC inputs per MPPT	2 + 2+2+2	
Max.input current(A)	30×4	
Max.short-circuit current(A)	40×4	
Battery Side		
Battery type	Lithium Battery	
Battery voltage range(V)	135 ~750	
Maximum charging/discharge current(A)	100	
List of compatible batteries	Veichi, Deye, Must, SRNE, Felicity, etc. For more details, please visit veichi.com	
Grid Side		
Rated output power(kW)	30	50
Max.output apparent power(kVA)	33	55
Max.input apparent power(kVA)	36	60
Max.charging power of battery(kW)	30	50
Rated AC voltage	220/380, 230/400, 240/415, 3L/N/PE	
Rated AC frequency(Hz)	50/60	
Max.output current(A)	50	83
Power factor	-0.8 lagging ~ 0.8 leading	
Max.total harmonic distortion	< 3%	
Back-up Side		
Rated output power(kW)	30	50
Max.output apparent power(kVA)	33	55
Max.output current(A)	50	83
UPS switching time(ms)	10ms	
Rated output voltage	3L/N/PE; 220/380V; 230/400V; 240/415V	
Rated output frequency(Hz)	50/60	
Voltage harmonic distortion	< 3%	
Generator Side		
Maximum Apparent Input Power (kVA)	36	60
Rated Input Voltage	3L/N/PE; 220/380V; 230/400V; 240/415V	
Input Voltage Frequency (Hz)	50/60	
Maximum Input Current (A)	54.5	90.9
Efficiency		
Max.efficiency(%)	98.8	
European efficiency(%)	98.3	
Protection		
Integration	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, AC Output Overvoltage Protection AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault, Current Monitoring, Arc Fault Circuit Interrupter, Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch	
Over voltage category	PV:II Main:III	
General Data		
Dimensions [W×H×D(mm)]	800× 620 × 300	
Weight(kg)	72	
Protection degree	IP65	
Standby self-consumption	< 40	
Topology	Transformerless	
Operating Temperature Range(℃)	-30 ~ 60	
Relative Humidity(%)	0 ~ 100	
Operating Altitude(m)	3000 (>3000m derating)	
Cooling	Smart fan cooling	
Noise Level(dB)	<65	
Display	LED+LCD	
Communication	RS485/CAN/WIFI /LAN	