

VEICHI

VH Series Hybrid Inverter

- Optimal Power & Storage
- Strong Load & Back-up
- Convenient Installation & Operation
- Flexible Design & Use





More Power & Storage

- High Power Efficiency for Enhanced ROI
- Big DC Input Current for Ideal PV Module Compatibility
- Large Capacity Charge/Discharge Current for Rapid Energy Cycling



Optimal Consumption & Back-up

- Unbalanced Output Capability for Strategic Power Optimization
- Continuous AC Overloading to Meet Intense Load Demands
- UPS-Level Switching for Ensured Operation of Uninterruptable Loads



Convenient Design & Installation

- Wide Battery Voltage Range for Customizable Storage Capacity
- Enabling Parallel Operation for Both On-Grid and Off-Grid Solutions
- Plug & Play Terminals for Easy Wiring and Installation

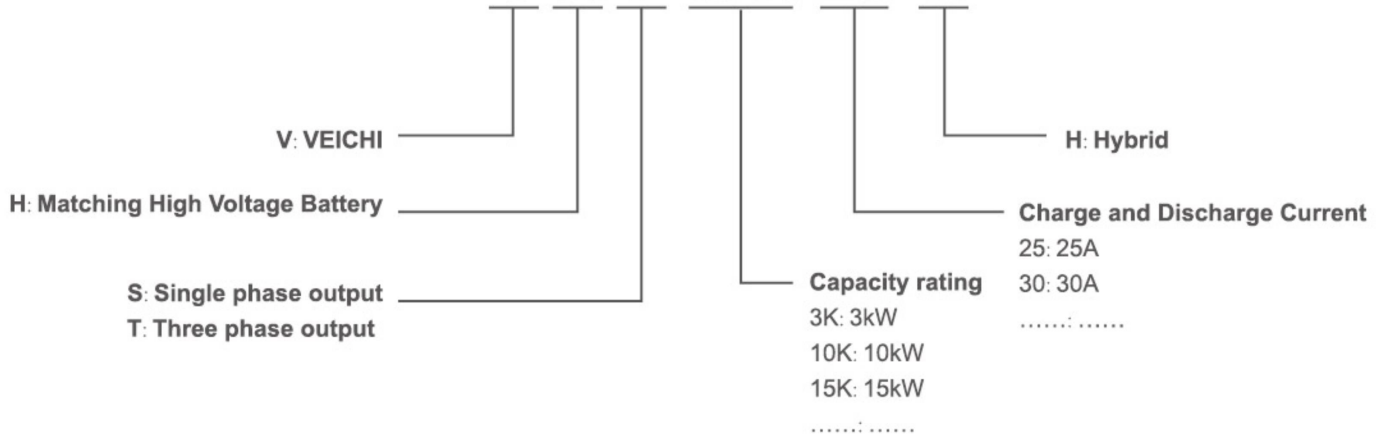


Intelligent Operation & Maintenance

- Intelligent Indicator Light for Clear Power Status and Alarm Indications
- OLED Display and App for Efficient Data Management
- VEICHI Energy Management System for Intelligent Control via App and Website

Model Description

V H T-10K-25-H



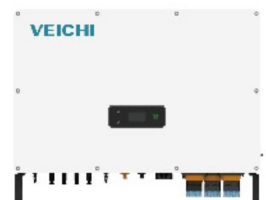
VHS-3K-30-H
(3K-8K)



VHT-4K-25-H
(4K-12K)



VHT-10K-40-H
(10K-20K)



VHT-25K-100-H
(25K-50K)

Mode		VHT-10K-40-H	VHT-12K-40-H	VHT-15K-40-H	VHT-20K-40-H
PV Input					
Recommended Max.input power	[kW]	15.0	18.0	22.5	30.0
Start-up voltage	[V]	135	135	135	135
Max.DC input voltage*	[V]	1000*	1000*	1000*	1000*
Rated DC input voltage	[V]	620	620	620	620
MPPT voltage range*	[V]	200-950*	200-950*	200-950*	200-950*
No.of MPP trackers		2	2	2	2
No.of DC inputs per MPPT		2/2	2/2	2/2	2/2
Max.input current	[A]	30/30	30/30	30/30	30/30
Max.short-circuit current	[A]	40/40	40/40	40/40	40/40
Battery Side					
Battery type		Lithium Battery (with BMS)			
Battery voltage range	[V]	135-750			
Maximum charging/discharge current	[A]	40/40			
Grid Side					
Rated output power	[kW]	10.0	12.0	15.0	20.0
Max.output apparent power	[kVA]	11.0 ¹⁾	13.2	16.5 ³⁾	22.0
Max.input apparent power**	[kVA]	20.0	24.0	30.0	30.0
Max.charging power of battery	[kW]	10.0	12.0	15.0	20.0
Rated AC voltage		3L/N/PE;220/380V;230/400V;240/415V			
Rated AC frequency	[Hz]	50/60	50/60	50/60	50/60
Max.output current	[A]	16.5 ²⁾	20.0	25.0 ⁴⁾	33.5
Power factor		0.8 leading...0.8 lagging			
Max.total harmonic distortion		<3%@Rated output power			
DCI		<0.5%In	<0.5%In	<0.5%In	<0.5%In
Back-up Side					
Rated output power	[kW]	10.0	12.0	15.0	20.0
Max.output apparent power	[kVA]	11.0	13.2	16.5	22.0
Max.output current	[A]	16.5	20.0	25.0	33.5
UPS switching time		<10ms	<10ms	<10ms	<10ms
Rated output voltage		3L/N/PE;220/380V;230/400V;240/415V			
Rated output frequency	[Hz]	50/60	50/60	50/60	50/60
Voltage harmonic distortion		<3%@Linear load			
Efficiency					
Max.efficiency		98.4%	98.4%	98.4%	98.4%
European efficiency		97.5%	97.5%	97.5%	97.5%
Protection					
DC reverse polarity protection		Integrated			
Battery input reverse connection protection		Integrated			
Insulation resistance protection		Integrated			
Surge protection		Integrated			
Over-temperature protection		Integrated			
Residual current protection		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]	534×418×210			
Weight	[KG]	28.0(10-12kW)/31.0(15-20kW)			
Protection degree		IP65			
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]	<40			
Display		OLED & LED			
Communication		CAN,RS485,WiFi/LAN (Optional)			

*PV Max.Input voltage is 950V without battery,or 850V with battery,otherwise inverter will be waiting;

**Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery;

1)G98:10.5kVA;2)G98:16.00A;3)AS 4777.2:15.0kVA;4)AS 4777.2:21.7A