

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

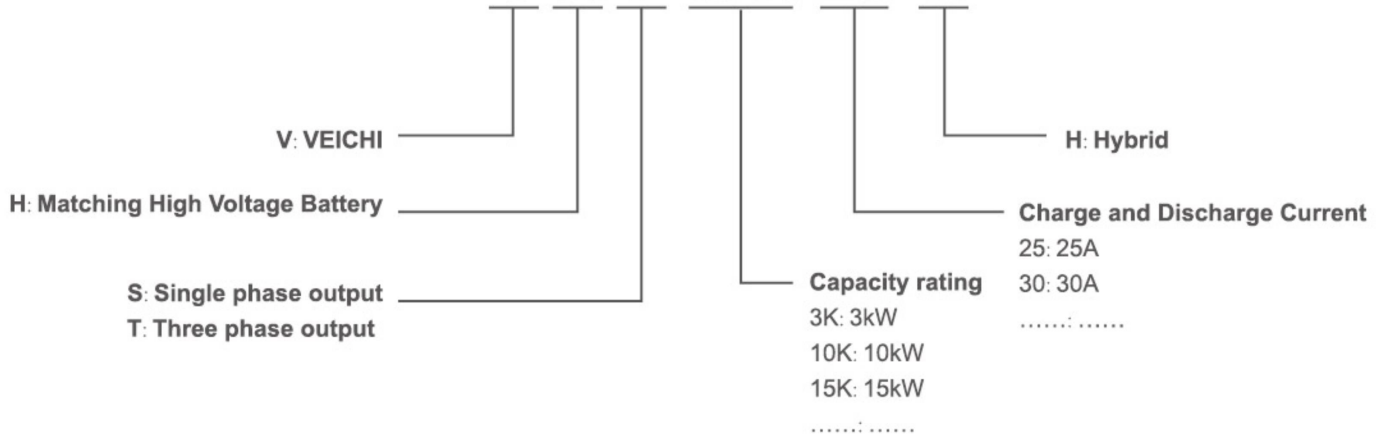


Intelligent Operation & Maintenance

- 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



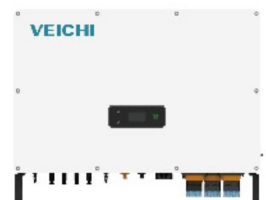
VHS-3K-30-H
(3K-8K)



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



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



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

Mode		VHT-4K-25-H	VHT-5K-25-H	VHT-6K-25-H	VHT-8K-25-H	VHT-10K-25-H	VHT-12K-25-H
PV Input							
Recommended Max.input power	[kW]	6.0	7.5	9.0	12.0	15.0	18.0
Start-up voltage	[V]	135	135	135	135	135	135
Max.DC input voltage*	[V]	1000*	1000*	1000*	1000*	1000*	1000*
Rated DC input voltage	[V]	620	620	620	620	620	620
MPPT voltage range*	[V]	120-950*	120-950*	120-950*	200-950*	200-950*	200-950*
No.of MPP trackers		2	2	2	2	2	2
No.of DC inputs per MPPT		1/1	1/1	1/1	1/1	1/1	1/1
Max.input current	[A]	15/15	15/15	15/15	15/15	15/15	15/15
Max.short-circuit current	[A]	20/20	20/20	20/20	20/20	20/20	20/20
Battery Side							
Battery type		Lithium Battery (with BMS)					
Battery voltage range	[V]	135-750					
Maximum charging/discharge current	[A]	25/25					
Grid Side							
Rated output power	[kW]	4.0	5.0	6.0	8.0	10.0	12.0
Max.output apparent power	[kVA]	4.4	5.5	6.6	8.8	11.0 ¹⁾	13.2
Max.input apparent power**	[kVA]	8.0	10.0	12.0	16.0	16.5	16.5
Max.charging power of battery	[kW]	4.0	5.0	6.0	8.0	10.0	12.0
Rated AC voltage		3L/N/PE;220/380V;230/400V;240/415V					
Rated AC frequency	[Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Max.output current	[A]	6.7	8.3	10.0	13.3	16.5 ²⁾	20.0
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	<0.5%In	<0.5%In
Back-up Side							
Rated output power	[kW]	4.0	5.0	6.0	8.0	10.0	12.0
Max.output apparent power	[kVA]	4.4	5.5	6.6	8.8	11.0	13.2
Max.output current	[A]	6.7	8.3	10.0	13.3	16.5	20.0
UPS switching time		<10ms	<10ms	<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	50/60	50/60
Voltage harmonic distortion		<3%@Linear load					
Efficiency							
Max.efficiency		98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
European efficiency		97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
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]	26.0					
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		Natural Convection					
Noise Level	[dB]	<25					
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