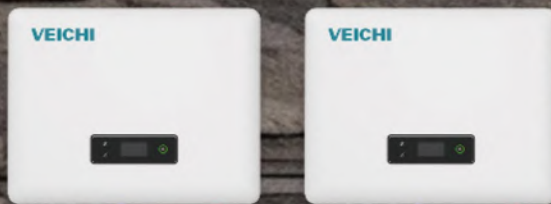


VEICHI

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

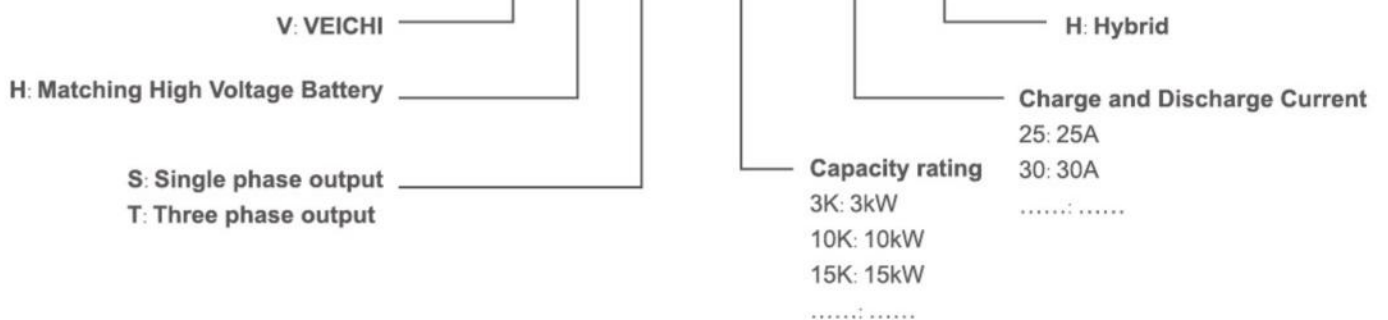


Intelligent Operation & Maintenance

- 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)



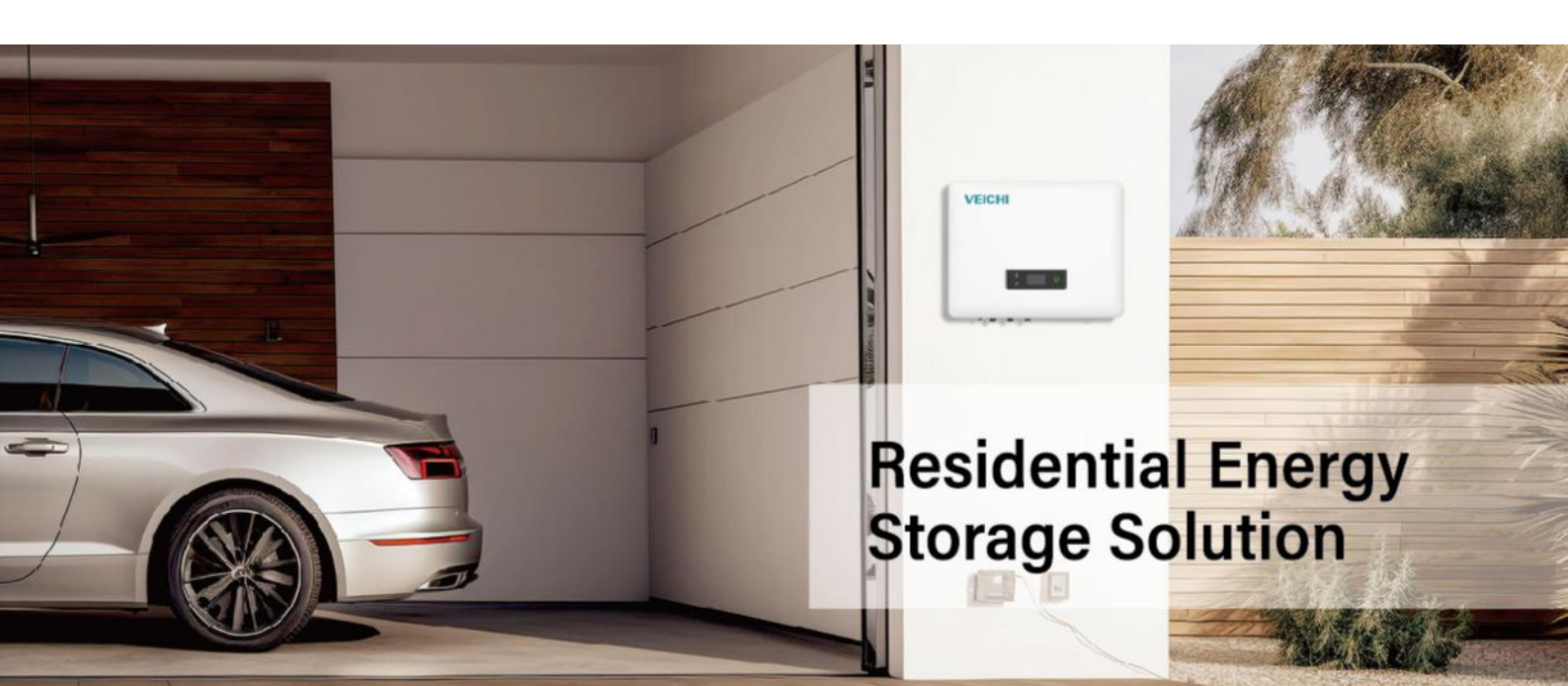
VHT-4K-25-H
(4K-12K)



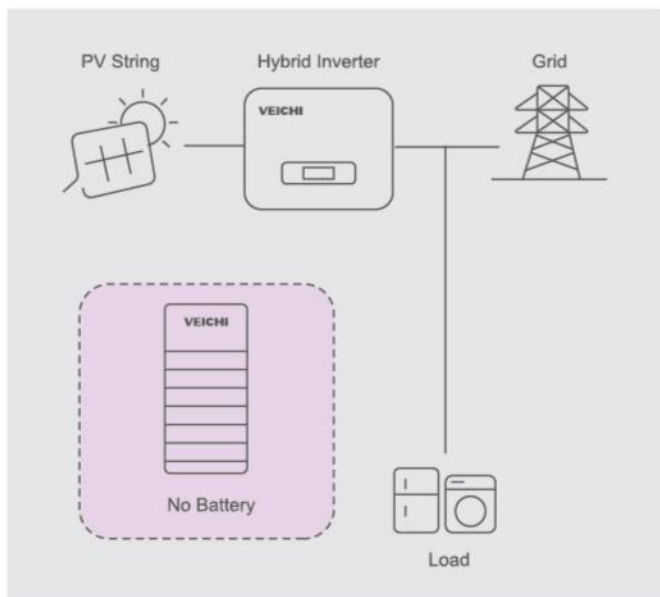
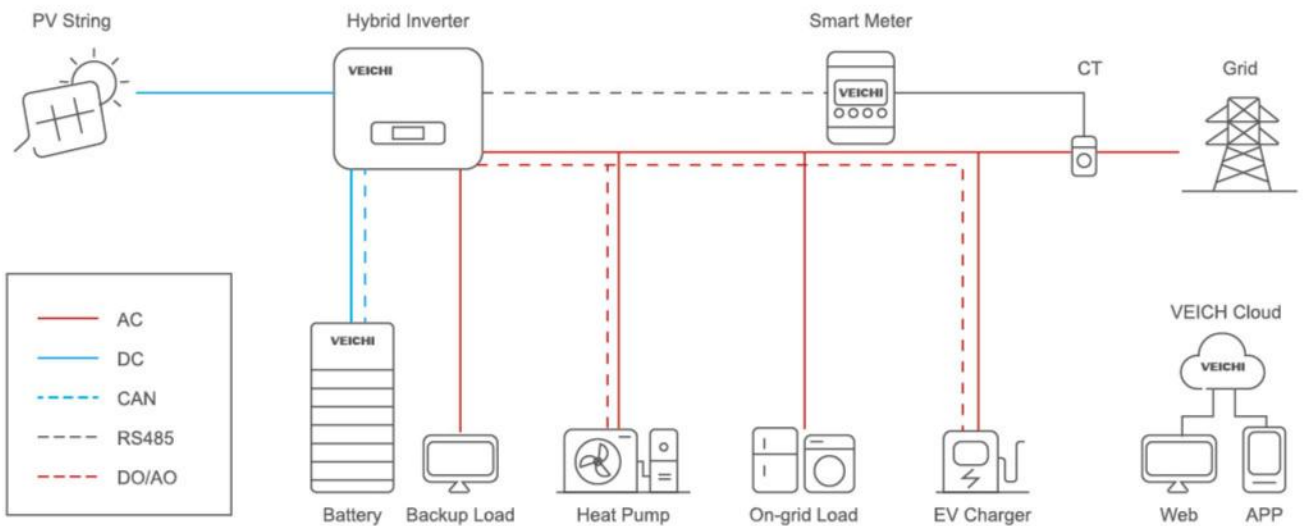
VHT-10K-40-H
(10K-20K)



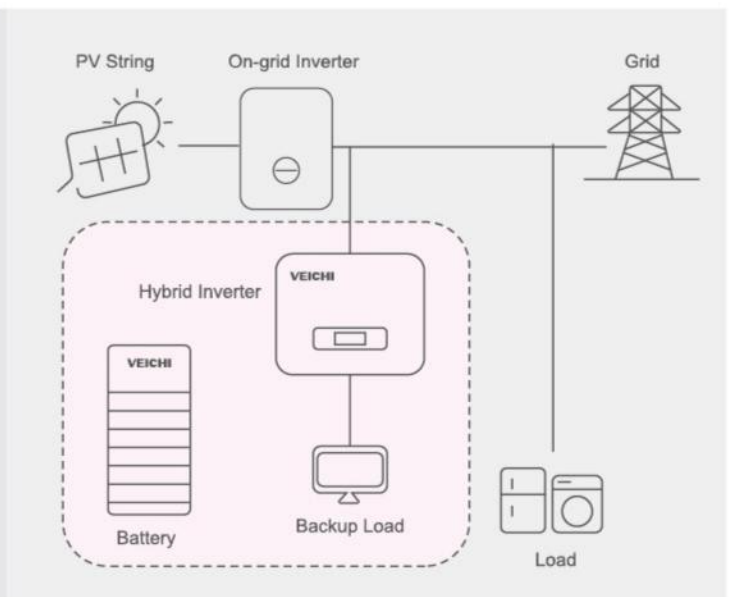
VHT-25K-100-H
(25K-50K)



Residential Energy Storage Solution



Battery Ready Scenario



AC Retrofit Scenario

Mode	VHS-3K-30-H	VHS-3.6K-30-H	VHS-4.2K-30-H	VHS-5K-30-H	VHS-6K-30-H	VHS-8K-30-H
PV Input						
Recommended Max.input power [kW]	4.80	5.76	6.72	8.00	9.60	12.80
Start-up voltage [V]	80	80	80	80	80	80
Max.DC input voltage* [V]	600*	600*	600*	600*	600*	600*
Rated DC input voltage [V]	360	360	360	360	360	360
MPPT voltage range* [V]	100-550*	100-550*	100-550*	100-550*	100-550*	100-550*
No.of MPP trackers	1	1	2	2	2	2
No.of DC inputs per MPPT	1	1	1/1	1/1	1/1	1/1
Max.input current [A]	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
Battery Side						
Battery type	Lithium Battery (with BMS)					
Battery voltage range [V]	85-450					
Maximum charging/discharge current [A]	30/30					
Grid Side						
Rated output power [kW]	3.00	3.60	4.20	5.00 ³⁾	6.00	8.00
Max.output apparent power [kVA]	3.30	3.96 ¹⁾	4.60	5.50 ⁴⁾	6.60	8.00
Max.input apparent power** [kVA]	6.00	7.20	8.40	10.00	10.00	12.00
Max.charging power of battery [kW]	3.00	3.60	4.20	5.00	6.00	8.00
Rated AC voltage	L/N/PE;220/230/240V					
Rated AC frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Max.output current [A]	15.00	18.00 ²⁾	21.00	25.00 ⁵⁾	28.70	36.30
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]	3.00	3.60	4.20	5.00	6.00	8.00
Max.output apparent power [kVA]	3.30	3.96	4.60	5.50	6.60	8.00
Max.output current [A]	15.00	18.00	21.00	25.00	28.70	36.30
UPS switching time	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms
Rated output voltage	L/N/PE;220/230/240V					
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	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
European efficiency	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%
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]	27.0					
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)					

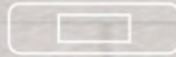
*PV Max.Input voltage is 550V without battery,or 500V with battery,otherwise inverter will be waiting;

**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)G98:3.68kVA;2)G98:16.00A;3)AS 4777.2:5.0kW,VDE-AR-N 4105:4.6kW;4)AS 4777.2:5.0kVA,VDE-AR-N 4105:4.60kVA,C10/11:5.0kVA;

5)AS 4777.2:21.7A,VDE-AR-N 4105:21.0A,C10/11:21.7A

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