



EVERY RAY COUNT



VELOX ENERGY PVT. LTD.

Smart Solar Solutions for
Homes, Businesses & Industries

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Hybrid Inverter

VH-3.0 / 3.6 / 4.0 / 4.6 / 5.0 / 5.5 / 6.0 KW

5
YEARS
WARRANTY



VH Series

Single-phase Low Voltage

FEATURES



Up to 120A current for battery charge and discharge



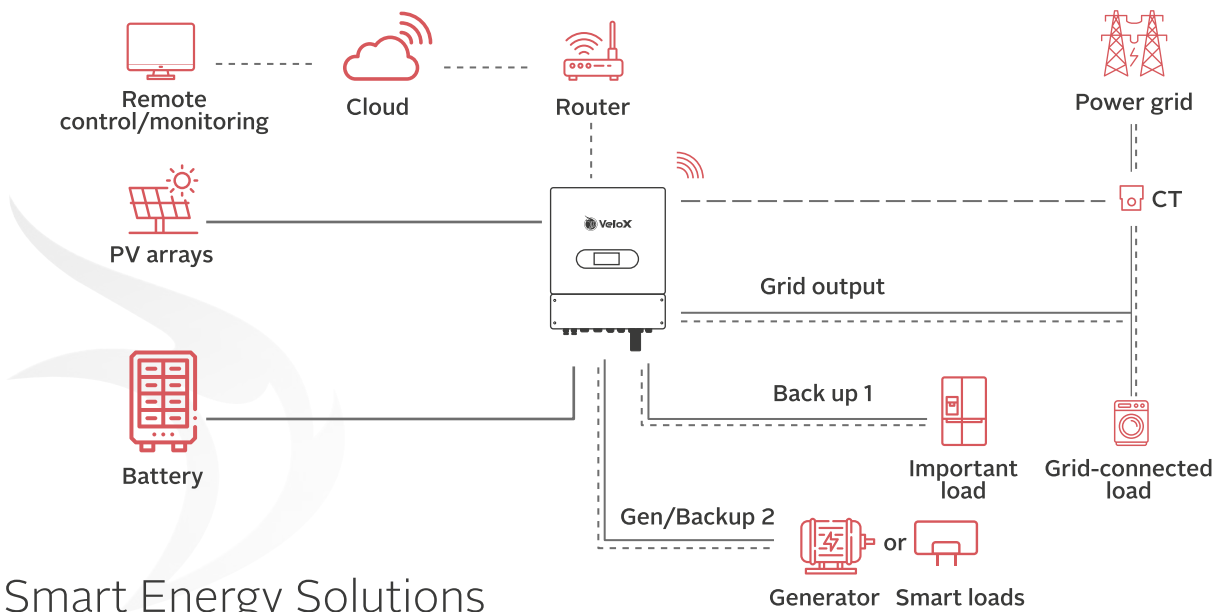
Uninterruptible power supply switching within 10 ms



Off-grid peak power of twice the rated power within 15 seconds



Supports lead-acid and lithium batteries, offering economical solutions for different markets



Smart Energy Solutions

Technical Specifications



MODEL NAME	VH-3.0 KW	VH-3.6 KW	VH-4.0 KW	VH-4.6 KW	VH-5.0 KW	VH-6.0 KW
BATTERY INPUT DATA						
Battery Type	Lithium or lead-acid battery					
Rated battery voltage	48V					
Maximum charging voltage	≤60V (Configurable)					
Maximum charge/Discharge current	75A	90A	100A	110A	120A	120A
PV INPUT DATA						
Maximum DC input power	6 kW	7.2 kW	8 kW	9.2 kW	10 kW	12 kW
Maximum DC input voltage	500V					
MPPT operating voltage range	150~450V					
Starting voltage	125V					
Maximum input current	18A	18/18A	18/18A	18/18A	18/18A	18/18A
MPPT number	1	2	2	2	2	2
AC OUTPUT PARAMETERS (ON-GRID)						
Maximum output apparent power	3300W	3960W	4400W	5000W	5500W	6000W
Rated output voltage	220/230V					
Rated output frequency	50/60Hz					
Max output current	15A	18A	20A	22A	25A	27A
Output power factor	1 (-0.8 leading ~ +0.8 lagging)					
AC OUTPUT PARAMETERS (OFF-GRID)						
Rated output apparent power	3000W	3600W	4000W	4600W	5000W	6000W
Maximum output apparent power	>200%, 15 seconds					
Rated output voltage	230V					
Rated output frequency	50/60Hz					
Max output current	14A	16A	18A	21A	23A	27A
EFFICIENCY						
MPPT efficiency	99%					
Max efficiency (PV)	97.6%					
Max efficiency (Battery)	94.5%					
PROTECTION						
PV input reverse polarity protection	Yes					
PV insulation resistance detection	Yes					
Residual current detection	Yes					
Output over current protection	Yes					
Output short circuit protection	Yes					
Output over voltage protection	Yes					
BASIC DATA						
Operation temperature	25°C~60°C (frequency decreasing above 45°C)					
Storage temperature	-30°C~65°C					
Relative humidity	0~95%					
Working altitude	≤4000 m (frequency decreasing above 2000 m)					
Cooling	Natural cooling					
Noise	<55dB					
Weight	20 kg					
Dimensions (W × H × D)	198×427×554 mm					
Protection class	IP66					
Topology	HF isolation (Battery side)					
CERTIFICATES						
	All Certificates as per Government of India Norms					

Hybrid Inverter

VH-7.0 / 7.6 / 8.0 KW

5
YEARS
WARRANTY



VH Series

Single-phase Low Voltage

FEATURES



Up to 190A current for battery charge and discharge



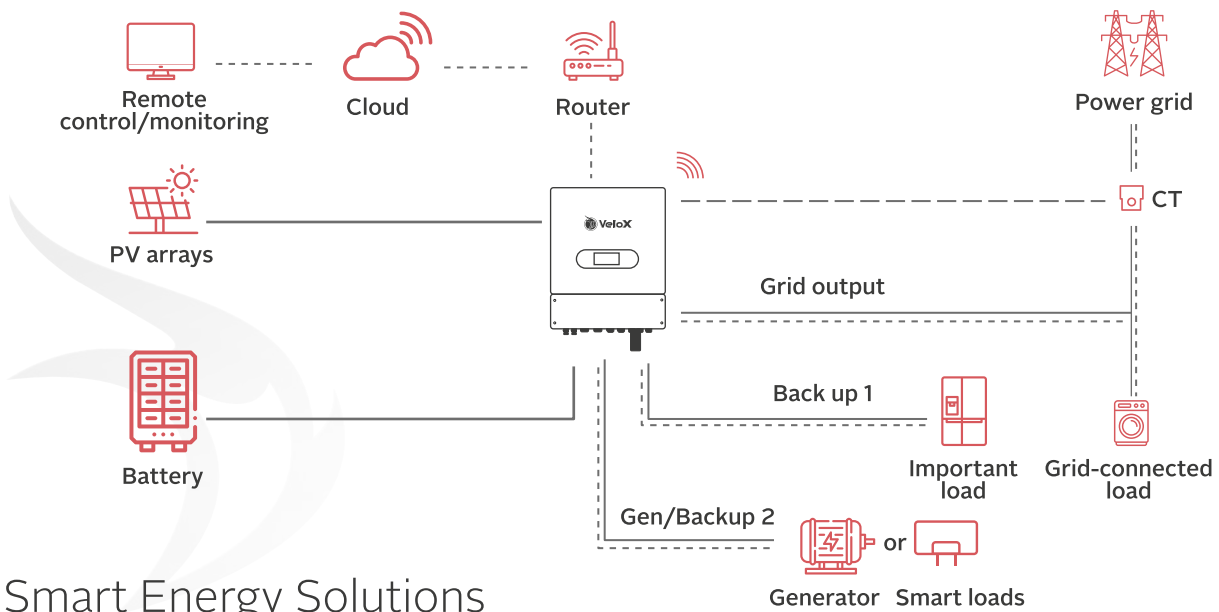
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Off-grid peak power of twice the rated power within 15 seconds



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Smart Energy Solutions

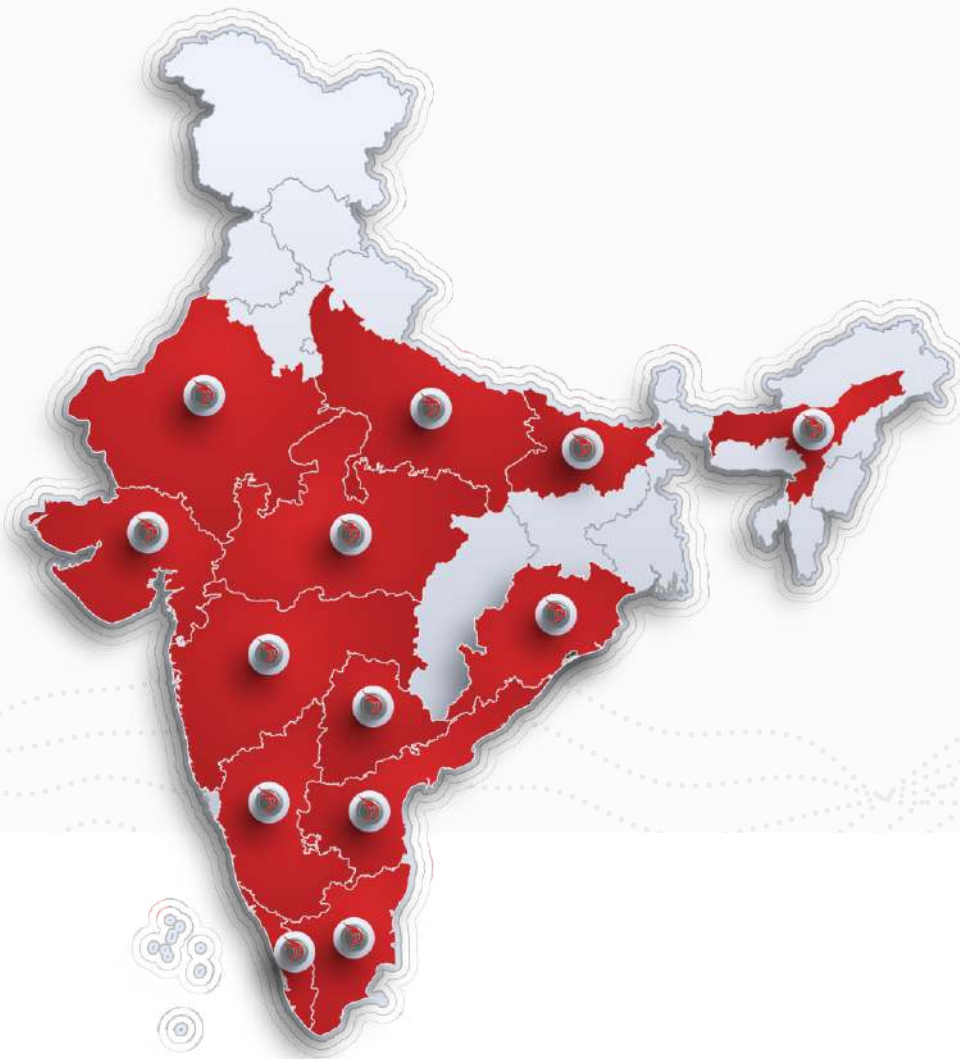
Technical Specifications



MODEL NAME	VH-7.0 KW	VH-7.6 KW	VH-8.0 KW
BATTERY INPUT DATA			
Battery Type	Lithium or lead-acid battery		
Rated battery voltage	48V		
Maximum charging voltage	≤60V (Configurable)		
Maximum charge/Discharge current	175A	190A	190A
PV INPUT DATA			
Maximum DC input power	14000W	15200W	16000W
Maximum DC input voltage	500V		
MPPT operating voltage range	150~450V		
Starting voltage	125V		
Maximum input current	30/18A	30/18A	30/18A
MPPT number	2	2	2
AC OUTPUT PARAMETERS (ON-GRID)			
Maximum output apparent power	7700W	8360W	8800W
Rated output voltage	220/230V		
Rated output frequency	50/60Hz		
Max output current	35A	38A	40A
Output power factor	1 (-0.8 leading ~ +0.8 lagging)		
AC OUTPUT PARAMETERS (OFF-GRID)			
Rated output apparent power	7000W	7600W	8000W
Maximum output apparent power	>200%, 15 sec		
Rated output voltage	220/230V		
Rated output frequency	50/60Hz		
Max output current	35A	38A	40A
EFFICIENCY			
MPPT efficiency	99%		
Max efficiency (PV)	98%		
Max efficiency (Battery)	94.5%		
PROTECTION			
PV input reverse polarity protection	Yes		
PV insulation resistance detection	Yes		
Residual current detection	Yes		
Output over current protection	Yes		
Output short circuit protection	Yes		
Output over voltage protection	Yes		
BASIC DATA			
Operation temperature	-25°C~60°C (frequency decreasing above 45°C)		
Storage temperature	-30°C~65°C		
Relative humidity	0~95%		
Working altitude	≤4000 m (frequency decreasing above 2000 m)		
Cooling	Intelligent forced air cooling		
Noise	<55dB		
Weight	21.5 kg		
Dimensions (W × H × D)	198×427×554 mm		
Protection class	IP66		
Topology	HF isolation (Battery side)		
STANDARD			
All Certificates as per Government of India Norms			

National Presence

Trusted Energy.
Nationwide Reach.



- Gujarat
- Maharashtra
- Rajasthan
- Odisha
- Tamil Nadu
- Andhra Pradesh
- Uttar Pradesh
- Madhya Pradesh
- Karnataka
- Assam
- Bihar
- Kerala
- Telangana



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