



EVERY RAY COUNT



**VELOX ENERGY PVT. LTD.**

Smart Solar Solutions for  
Homes, Businesses & Industries

[www.veloxenergy.in](http://www.veloxenergy.in)

# Hybrid Inverter

VHT-5.0 / 6.0 / 7.0 / 8.0 / 10.0 / 12.0 KW

**5**  
YEARS  
WARRANTY



## VHT Series

Three-phase Low Voltage

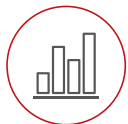
### FEATURES



Up to 250A current for battery charge and discharge



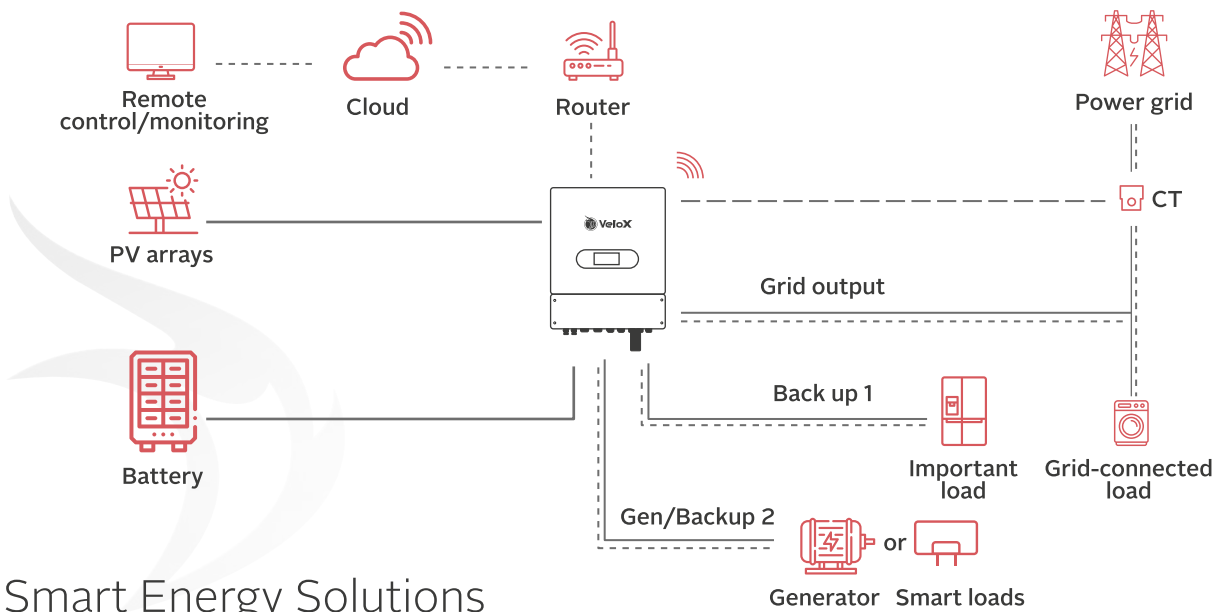
Uninterruptible power supply switching within 10 ms



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

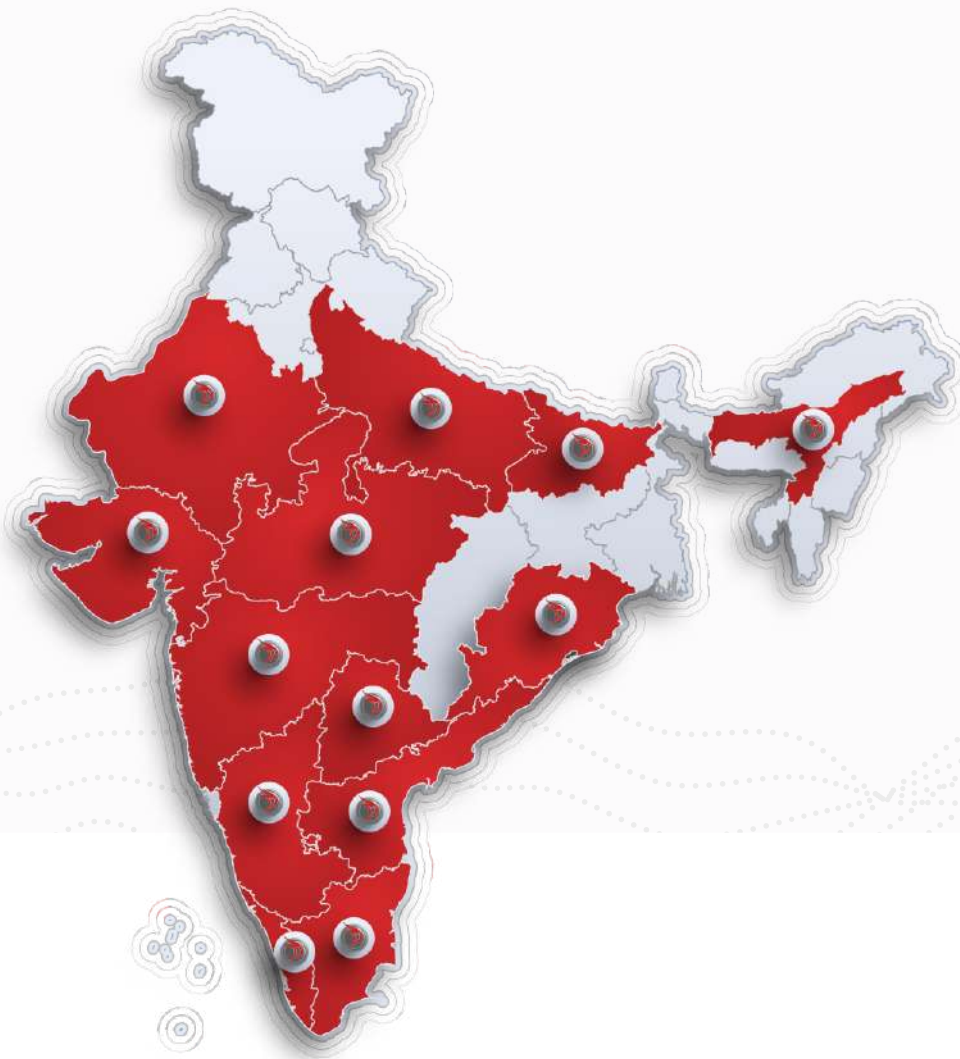
# Technical Specifications



MODEL NAME	VHT-5.0 KW	VHT-6.0 KW	VHT-7.0 KW	VHT-8.0 KW	VHT-10.0 KW	VHT-12.0 KW
<b>BATTERY INPUT DATA</b>						
Battery Type	Lithium or lead-acid battery					
Rated battery voltage	48V					
Maximum charging voltage	≤60V (Configurable)					
Maximum charge/Discharge current	120A	125A	150A	190A	210A	250A
<b>PV INPUT DATA</b>						
Maximum DC input power	10000W	12000W	14000W	16000W	20000W	24000W
Maximum DC input voltage	1000V					
MPPT operating voltage range	200~800V					
Starting voltage	150V					
Maximum input current	18A	18A	18A	18/18A	36/18A	36/18A
MPPT number	1	1	1	2	2	2
<b>AC OUTPUT PARAMETERS (ON-GRID)</b>						
Maximum output apparent power	5500W	6600W	7700W	8800W	11000W	13200W
Rated output voltage	380/400V					
Rated output frequency	50/60Hz					
Max output current	8.3A	10A	11.6A	13.3A	16.7A	20A
Output power factor	1 (-0.8 leading ~ +0.8 lagging)					
<b>AC OUTPUT PARAMETERS (OFF-GRID)</b>						
Rated output apparent power	5500W	6600W	7700W	8000W	10000W	12000W
Maximum output apparent power	>200%, 15 sec					
Rated output voltage	380/400V					
Rated output frequency	50/60Hz					
Max output current	8.3A	10A	11.6A	13.3A	16.7A	20A
<b>EFFICIENCY</b>						
MPPT efficiency	99%					
Max efficiency (PV)	98%					
Max efficiency (Battery)	94.5%					
<b>PROTECTION</b>						
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					
<b>BASIC DATA</b>						
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	38 kg					
Dimensions (W × H × D)	475×683×256 mm					
Protection class	IP66					
Topology	HF isolation (Battery side)					
<b>STANDARD</b>						
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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