

# VECTOR HP



**Vector HP UPS offer a compact and attractive design with top-level protection.**

**Versatile and reliable, it meets market demands with reduced costs (CapEx) and low maintenance (OpEx).**

**VECTOR HP: the ideal solution for electrical continuity and protection!**

**QUALITY CERTIFIED by POWERTRONIX!**

The **VECTOR HP** UPS series by Powertronix is designed for clients requiring **professional protection without compromise**. With a **power factor of 1**, multi-level technology, **internal battery, and on-site configurable inputs/outputs**.

Adaptable to existing infrastructures, it ensures continuity for **medium-sized systems** in various sectors, including CPSS applications. It represents the **best value for money** for tri/mono/tri systems, offering **easy installation and high protection** thanks to On-Line Double Conversion **VFI technology**

**TYPICAL APPLICATION:**

- Offices/ PC's;
- Small IT Networks;
- Servers/ Datacenter;
- Analysis equipment;
- TV and Radio Studios;
- Access & Presence;
- Laboratories;

**SPECIAL APPLICATION:**

- CEI-016
- EN-50171

VFI-SS-111

1-1/3-1/3-3

10kVA-30kVA

# Vector HP

<b>UPS MODEL</b>	<b>VECTOR HP</b>		
<b>UPS NOMINAL RATING</b>	10kVA	20kVA	30kVA
<b>UPS ACTIVE POWER</b>	10.000W	20.000W	30.000W
<b>UPS PART NUMBER</b>	VNVH10-000	VNVH20-000	VNVH30-000

## Input:

<b>INPUT NOMINAL VOLTAGE</b>	Single Phase : 220/230/240VAC Three Phase: 380/400/415VAC (3f+N)	Three Phase : 380/400/415VAC (3f+N)
<b>INPUT VOLTAGE TOLERANCE</b>	-50% ÷ +30% @ 50%load // -30% ÷ +30% @ 100%load	
<b>INPUT NOMINAL FREQUENCY</b>	50/60Hz	
<b>INPUT FREQUENCY TOLERANCE</b>	40 ÷ 70 Hz	
<b>INPUT POWER FACTOR</b>	≥0.99	
<b>INPUT THDi</b>	THDI ≤3%	

## Output:

<b>OUTPUT NOMINAL VOLTAGE</b>	Single Phase : 220/230/240VAC Three Phase: 380/400/415VAC (3f+N)	Three Phase: 380/400/415VAC (3f+N)
<b>OUTPUT POWER FACTOR</b>	1	
<b>OUTPUT THDV</b>	≤ 1,5 % W/linear loads & ≤ 3,5% w/non linear load	
<b>OVERLOAD</b>	Up to : 110% for 60 minutes - 125% for 10 minutes - 150% for 30 second –over 150% istantaneous	
<b>OUTPUT NOMINAL FREQUENCY</b>	50/60Hz stability ±0.1%	
<b>CREST FACTOR</b>	3:1	

## Bypass:

<b>Nominal V&amp;F</b>	Single Phase : 220/230/240VAC or Three Phase : 380/400/415VAC (3f+N) 50/60Hz
<b>NOMINAL TOLLERANCE</b>	Standard ±10%, selectable up to 20%
<b>MANUAL BYPASS</b>	Available with mechanical protection
<b>TYPE</b>	Static Type, seamless switch wit Automatic return on Mains with no alarm

## Batterie:

<b>STD INTERNAL BATTERIES</b>	20	32	64
<b>INTERNAL BATTERY EXTENSION</b>	Up to 40 internal block (with optional VNVH40-Kit)	no	
<b>EXTERNAL BATTERY CABINET</b>	Yes, available		
<b>CHARGING I&amp;V *</b>	Up to 20Amp (selectable ) – normally set to a0.1C / 13,5VDC/block		
<b>BATTERY COMPATIBILITY</b>	VRLA-AGM / VRLA-GEL (others upon request)		

## Environment:

<b>DIMENSION (WxDxH)</b>	250x630x750h (830mm W/ castors)	300x815x1000 830 (W/ castors)	
<b>WEIGHT Kg (no blocks)</b>	45	49	53
<b>(std blocks number)</b>	93	123	212
<b>(Max internal blocks)</b>	119	143	212
<b>OUTPUT CONNECTIONS</b>	Terminals		
<b>TEMPERATUR AND RU%</b>	0÷40°C – UR % up to 95% non condensing- no derating up to 2.000m slm		
<b>NOISE (dBa@1Mt)</b>	<52 dB / < 54dB for VNVH30-000		
<b>EXTERNAL INTERFACES</b>	Standard : USB - RS232 - LCD touch screen –EPO OPTIONAL: “smart slot” SNMP card, dry contact card , Modbus card over TCP-IP or RS485		
<b>EUROPEAN DIRECTIVES</b>	LV 2014/35/EU Low Voltage Directive EMC 2014/30/EU Electromagnetic Compatibility Directive / CE marks		
<b>INTERNATIONAL STANDARDS</b>	Safety IEC EN 62040-1;IEC EN 62040-2 EMC;RoHS Compliance; IEC EN 62040-3 ( Voltage and Frequency Indipendent)VFI-SS-111		

# Vector HP

## Opzioni di comunicazione:

### ➤ + SNMP/TCP-IP

The **VECTOR HP** series, with the **VN-SNMP** card, allows remote monitoring and management of UPS systems via your **Local Area Network (LAN)**.

Using SNMP protocols, it provides the following key features:

**-Remote Monitoring and Control:** Enables setting custom thresholds to trigger alarms and remotely monitor the UPS status.

**-Event Notifications:** Sends email notifications to the team or selected personnel in case of critical power events.

**-Network-Wide Power Management:** Provides information on power events, facilitates automatic shutdowns, and monitors all UPS units connected to the network.

**-Information Accessibility:** Periodically collects and makes UPS data available to connected applications.



### ➤ + MODBUS RTU

The **VN-MODBUS** card is a communication accessory designed to enhance the **management and control** of VECTOR HP series. Equipped with two RS485 over RJ45 connector, this card enables remote monitoring and control of UPS units, **facilitating integration** with existing RS485/MODBUS network infrastructures.

The card implements the **Modbus RTU protocol**, a widely used communication standard, allowing interfacing via RS485 with a PC or any **Building Management System (BMS)**. This means that the Modbus card not only provides a reliable channel for real-time monitoring of UPS parameters but also allows the collected data to be **integrated into a centralized management system**, improving operational efficiency and responsiveness.



### ➤ + DRY CONTACT

The **AS400** card is a communication accessory that provides **potential-free contacts for remote UPS monitoring**, making it easy to interface with Programmable Logic Controllers (PLC) or signal control panels.

It delivers **critical information** such as UPS failure, alarms, main power failure, bypass activation, low battery warnings, and UPS status (on/off).

These potential-free contacts ensure **isolated signals**, preventing electrical interference between systems. The AS400 card enhances the reliability of the power management system by offering real-time alerts, allowing for quick responses to issues and ensuring the continuous operation of critical systems. This makes it a valuable tool for integrating **UPS monitoring into broader control networks**.



### ➤ + DRY+SNMP

The **S806AS400** Card enables the integration of AS400 functionality with SNMP capabilities in a single solution.

### ➤ + ENVIRONMENT MONITORING

The **VN-EMD** helps to control the ambient condition for proper battery and ups functionality

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**Secure Power**  
**Innovation That Saves**

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## + BATTERY CABINET

VNVH-BB cabinets are specifically designed to extend the autonomy of your Vector HP UPS, offering superior autonomy with reduced space. Designed to house up to 40 or 64 blocks, the cabinet's design fits perfectly with the Vector HP series aesthetics, providing a practical, solid, and visually appealing solution. Another option is the VNVHBB4E cabinet, capable of housing up to 120 blocks.

All cabinets come with breakers or fuses and wiring for UPS connection.

VNVHBB063040



VNVHBB063064



VNVHBB4E

	VNVHBB063040	VNVHBB063064	VNVHBB4E
BC/UPS COMPATIBILITY	VNVH10-000 VNVH20-000	VNVH10-000/VNVH20-00 VNVH30-000	VNVH10-000/VNVH20-00 VNVH30-000
MAX CAPACITY FOR BC 12V 7.2/9Ah	up to 40 blocks	up to 64 blocks	up to 120 blocks
WEIGHT kG (no block)	22	45	60
WEIGHT kG (max nr Block)	122	235	360

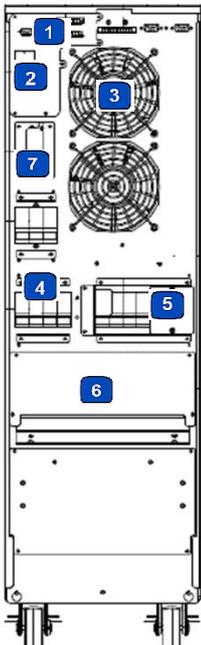
DIMENSSION (LxPxH/mm)  
W/CASTORS

250\*592\*576h

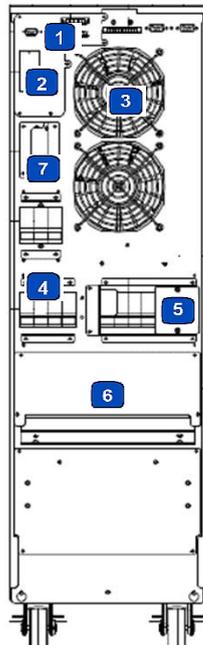
250\*815\*826h

390\*900\*910h

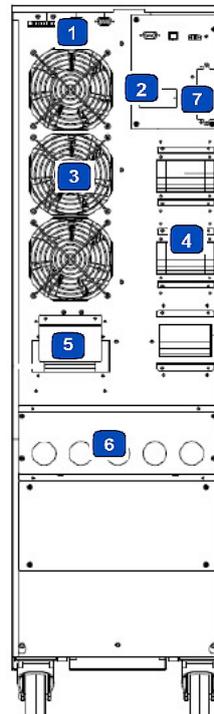
VNVH10



VNVH20



VNVH30



- 1 RS 232 -RS 485
- 2 SMART SLOT
- 3 Exhaust Air exit
- 4 In / Out / Reserve Switch
- 5 Main Bypass Breaker
- 6 I/O terminals
- 7 Ext battery connection

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