



POWERVARIO

Intelligent True On-Line Uninterruptible Power Supply (UPS)



POWERVARIO

Technical specifications

MODEL	PVO11/1K	PVO11/2K	PVO11/3K	PVO11S/2K	PVO11S/3K
Apparent Output Power	1000 VA	2000 VA	3000 VA	2000 VA	3000 VA
Active Output Power	700 watts	1400 watts	2100 watts	1600 watts	2400 watts
Autonomous Time (Standard Battery)	7 min.	7 min.	6 min.	6 min.	5 min.
Power Factor	0.7	0.7	0.7	0.8	0.8
Topology	Double conversion online VFI-SS-111				
Type	Rack/tower				
INPUT					
Nominal Voltage	160-288 VAC				
Frequency	50/60 Hz, autoselect, ± 5 Hz				
Power Factor	± 0.99 at full rated linear load				
Input Current Total Harmonic Distortion THDi	< 6% at 100% linear load				
OUTPUT					
Voltage	Adjustable to 220/230/240 VAC				
Frequency	50/60 Hz, autoselect synchronisation window, 3 Hz or 1 Hz (setting via software)				
Total Harmonic Distortion THD	$\pm 3\%$ THD (linear load), $\pm 7\%$ THD (non-linear load)				
Overloading Capability	Inverter mode: 120% for 20 seconds, bypass mode: 175% for 1 second				
Crest Factor	3:1				
EFFICIENCY					
Load 100/75/50/25%	85/82/82/80	85/82/82/80	88/85/85/83	92/88/84/80	89/88/85/83
ENVIRONMENT					
Storage Temperature/Operating Temperature (°C)	0-45/0-40				
COMMUNICATIONS					
Interfaces	RS-232, USB, SNMP card (option), modbus card (option), relay card (option)				
DIMENSIONS, WEIGHT					
Dimensions H x W x D (mm)	89 x 445 x 490	89 x 445 x 660	89 x 445 x 660	177 x 445 x 420	177 x 445 x 420
Weight (kg)	17	30	33	27	30
OPTIONS					
Accessories	External bypass, additional battery packs, output distributions, 19" pull-out rack rails				
STANDARDS					
Safety	EN 62040-1-1, IEC 60950-1				
Electromagnetic Compatibility (EMC)	EN 62040-2, EN 61000-3-2, EN 61000-3-3, FCC Class A				
Performance	EN 62040-3				
Product Certification	CE, cUL, FCC, additional versions on request				
Enclosure	IP 20				
Manufacture	Certified to ISO 9001:2000				

MODEL	PVO11/4.5K	PVO11/6K	PVO11S/6K	PVO11/8K	PVO11/10K
Apparent Output Power	4500 VA	6000 VA	6000 VA	8000 VA	10000 VA
Active Output Power	3250 watts	4200 watts	4800 watts	6400 watts	8000 watts
Autonomous Time (Standard Battery)	10 min.	8 min.	6 min.	7 min.	5 min.
Power Factor	0.7	0.7	0.8	0.8	0.8
Topology	Double conversion online VFI-SS-111				
Type	Rack/tower				
INPUT					
Nominal Voltage	160-280 VAC				
Frequency	50/60 Hz, autoselect ± 5 Hz				
Power Factor	± 0.99 at full rated linear load				
Input Current Total Harmonic Distortion THDi	< 6% at 100% linear load				
OUTPUT					
Voltage	Adjustable to 220/230/240 VAC				
Frequency	50/60 Hz, autoselect synchronisation window, 3 Hz or 1 Hz (setting via software)				
Total Harmonic Distortion THD	+/- 3% THD (linear load), +/- 7% THD (non-linear load)				
Overloading Capability	Inverter mode: 120% for 20 seconds, bypass mode: 175% for 1 second				
Crest Factor	3:1				
EFFICIENCY					
Load 100/75/50/25%	92/89/89/87	92/89/89/87	91/89/89/85	91/91/91/89	91/91/91/89
ENVIRONMENT					
Storage Temperature/Operating Temperature (°C)	0-45/0-40				
COMMUNICATIONS					
Interfaces	RS-232, USB, SNMP card (option), modbus card (option), relay card (option)				
DIMENSIONS, WEIGHT					
Dimensions H x W x D (mm)	222 x 445 x 660	222 x 445 x 660	309 x 445 x 580	264 x 445 x 680	264 x 445 x 680
Weight (kg)	92	92	92	96	96
OPTIONS					
Accessories	External bypass, additional battery packs, output distributions, 19" pull-out rack rails				
STANDARDS					
Safety	EN 62040-1-1, IEC 60950-1				
Electromagnetic Compatibility (EMC)	EN 62040-2, EN 61000-3-2, EN 61000-3-3, FCC Class A				
Performance	EN 62040-3				
Product Certification	CE, cUL, FCC, additional versions on request				
Enclosure	IP 20				
Manufacture	Certified to ISO 9001:2000				

POWERVARIO

The multifunctional UPS solution

PowerVario is a multifunctional UPS series for single-phase uninterruptible power supply for server, network, storage, VoIP and telecommunication applications.

The UPS can be used as a stand-alone or 19" rack configuration with Newave connectivity options. It is the perfect solution for mission critical applications which require high reliability, availability and performance.

The UPS completely regenerates the utility power to correct power disturbances in the mains. The unit provides clean AC power with Voltage and Frequency Independency from the mains power supply (VFI).

PowerVario provides an excellent return on your investment. The system is fully modular and allows you to increase the overall power output, battery run-time and redundancy as your needs and requirements grow. The modular design eliminates any single point of failure.



- Compact design
- Combined 19" rack and tower version
- 4.5 kVA and 6 kVA can be connected for parallel redundancy
- Interfaces: USB, RS-232, SNMP, modbus, potential free contacts, EPO contact inputs



PowerVario enables integration into a wide variety of environments

PowerVario innovations

- Outlets switchable via software or Web browser
- Frequency converter adjustable
- Eco mode function adjustable



Maximum power with parallel redundancy

Hot-swappable batteries

PowerVario 3 kVA with front access for battery swap. PowerVario allows the user to easily replace the battery packs without interrupting the critical load.



Advanced battery discharge management

The PowerVario UPS series automatically manages the end-discharge voltage of the internal batteries according to the load. The ABDM function prevents deep discharge of the batteries during a power failure. Only 4U high with additional battery extension.

Optional and additional battery modules

PowerVario 3 kVA with optional and additional battery modules for extended battery run-time. Only 4U high with additional battery extension.



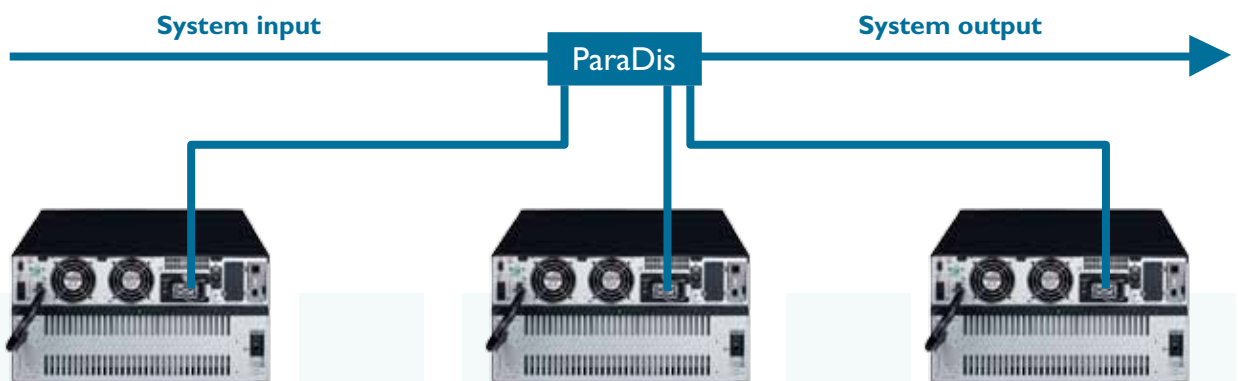
High output performance

PowerVario 4.5-10 kVA with standard battery module. 4.5 and 6 kVA with a latchable safe-swap connector for the shortest possible MTTR.



Parallel redundancy

To increase the power capacity when configuring a parallel redundant system, up to three PowerVario systems are simply interconnected using the CAN-bus (RJ45) on the rear of the PowerVario series. Option: ParaDis, a combined service bypass and distributor for 4.5 and 6 kVA. Versions are available for 1, 2 or 3 x UPS to create a 1+1 or 2+1 redundancy with safe-swap connection.



User-friendly display

An easy-to-read display provides a real-time view of all major system parameters and the system status, including load level, battery level, system wiring faults, overload, programmable output status, etc.



Options

1, 2 and 3 kVA service bypass with output distribution and fuses – short MTTR.



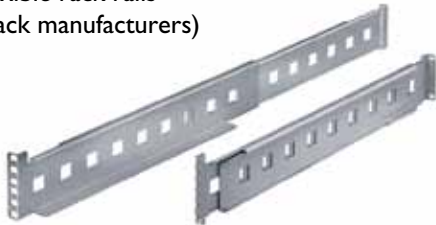
19" power distribution



PVO-PDM32



Optional flexible rack rails (for many rack manufacturers)



Optional SNMP/modbus network interface cards (dry contacts also available)



Latchable input/output connector to UPS for safe-swap





Newave Group Companies

Newave Energy Holding SA

Via Luserte Sud 9
CH-6572 Quartino
T +41 (0) 91 850 29 29
F +41 (0) 91 840 12 54
info@newaveenergy.com
www.newaveenergy.com

Head Office: Operations, Sales & Marketing

Newave SA

Via Luserte Sud 9
CH-6572 Quartino
T +41 (0) 91 850 29 29
F +41 (0) 91 840 12 54
info@newaveenergy.com
www.newaveenergy.com

Subsidiaries

Austria

Newave Österreich GmbH
Laxenburgerstrasse 252
A-1230 Wien
T +43 (1) 710 96 70 0
F +43 (1) 710 96 70 12
info@newaveups.at
www.newaveups.at

Hong Kong & China

Newave Energy Hong Kong Ltd
Room 2506, West Tower,
Shun Tak Centre
HK-168-200 Connaught Road Central
T +31 642 215 512
sales-china@newave.com.cn
www.newave.com.cn

Italy

NEWAVE Italia
Via Vincenzo Ussani, 90
I-00151 Roma
T +39 (0) 687 451 674
T +39 (0) 665 31 316
F +39 (0) 665 31 306
info@newaveenergy.it
www.newaveups.it

Switzerland

Newave Energy AG
Industriestrasse 5
CH-5432 Neuenhof
T +41 (0) 56 416 01 01
F +41 (0) 56 416 01 00
info@newaveenergy.ch
www.newaveenergy.ch

Finland

Newave Finland OY
Niittyläntie 2
FI-00620 Helsinki
T +358 (0) 10 421 9400
info@newaveups.fi
www.newaveups.fi

with branch office in China:

Newave Energy (Jiangmen) Limited
9/F Kawa House, 49 Jiangshe Road,
Jiangmen, GuangDong, China
Postal Code: 529000
T +86 750 368 0239
F +86 750 368 0229
sales-china@newave.com.cn
www.newave.com.cn

Latin America

Newave South America LTDA
Rua Clodomiro Amazonas No. 1422
Suite 68
BR-04537-002 - São Paulo
T +55 (11) 3045 0809
F +55 (11) 3045 0764
info@newavesam.com
www.newaveups.com

with branch office in Biel:

Am Wald 36
CH-2504 Biel
T +41 (0) 32 366 60 30
F +41 (0) 32 366 60 35
info@newaveenergy.ch
www.newaveenergy.ch

Germany

Newave USV Systeme GmbH
Summerside Ave. C 207
Baden Airpark
D-77836 Rheinmünster
T +49 (0) 7229 1866 0
F +49 (0) 7229 1866 33
zentrale@newave-usv.de
www.newave-usv.de

India

Newave Energy India Pvt. Ltd.
818/819 Corporate Avenue,
Sonawala Road, Goregaon East,
Mumbai 400 0063
T +91 (22) 4266 5151
F +91 (22) 4266 5141
rajesh.shah@newaveenergy.in
www.newaveups.com

Spain

Newave España SA
Arturo Soria 329 I D
ES-28033 Madrid
T +34 (91) 768 22 22
F +34 (91) 383 21 50
newave@newave.es
www.newave.es

The Netherlands

Newave UPS Systems BV
Stephensonweg 9
NL-4207 HA Gorinchem
T +31 (0) 183 64 6474
F +31 (0) 183 62 3540
info@newaveups.nl
www.newaveups.nl

Newave Certifications & Recognitions

