



REHLKO **PW** 3000/P1

High-efficiency single-phase uninterruptible power supply

(10 & 20 kVA)

Parallelable up to 80 kVA/kW

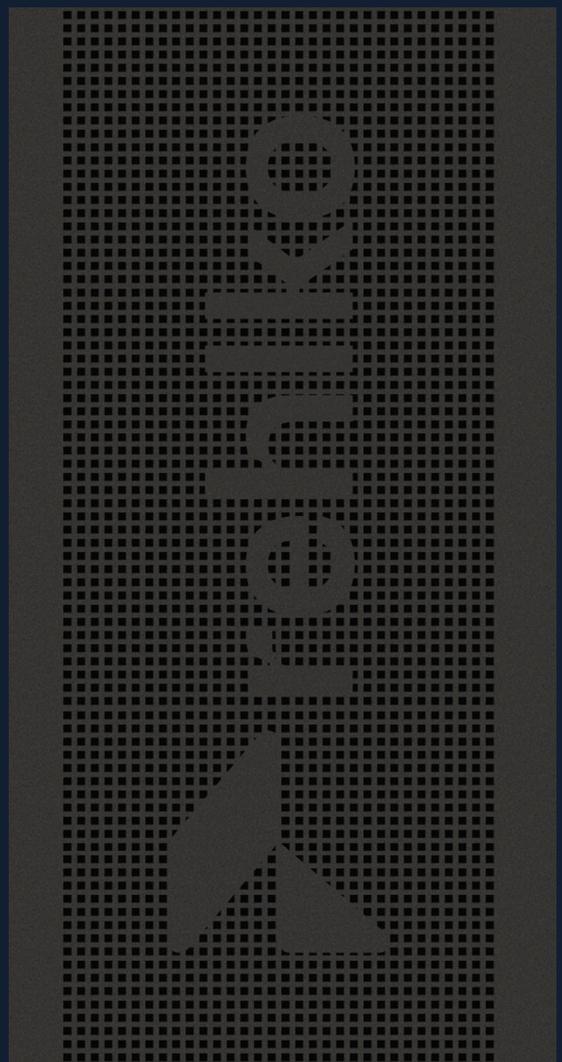
Compact and advanced, the PW 3000/P1 leads the way for single-phase UPS energy efficiency.

The Rehlko PW 3000/P1 solves the problem of providing economic-to-run, dependable critical power protection for higher load single-phase applications such as vital servers, networks and telecommunications.

Compact, easy to install and operate, with an advanced intuitive touchscreen display, the Rehlko PW 3000/P1 is available in 10 kW and 20 kW models. Up to four units can be paralleled, enabling support of loads up to 80 kW.

With a 1.0, or "unity" output power factor and outstanding energy efficiency of 96.6% in continuous online, double conversion VFI mode, this makes the Rehlko PW 3000/P1 an ideal choice for those wanting to invest in advanced, reliable and environmentally-conscious protection of critical loads.





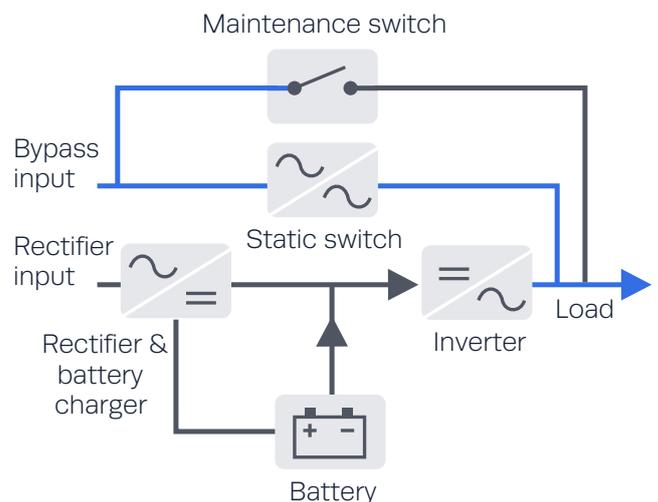
With the class leading Rehlko PW 3000/P1, Rehlko is responding to key market trends including:

- | Energy cost and carbon emissions concerns rising
- | Rising loads but restricted space

In addition, Rehlko recognises many IT and FM professionals depend on high quality guidance and support to select appropriate, modern and cost-effective solutions. A highly experienced, UK-based engineering team is therefore available should you require pre or post sale assistance.

Dual input system principle diagram

Online double conversion continuously provides filtered and stabilised waveform and frequency



Features



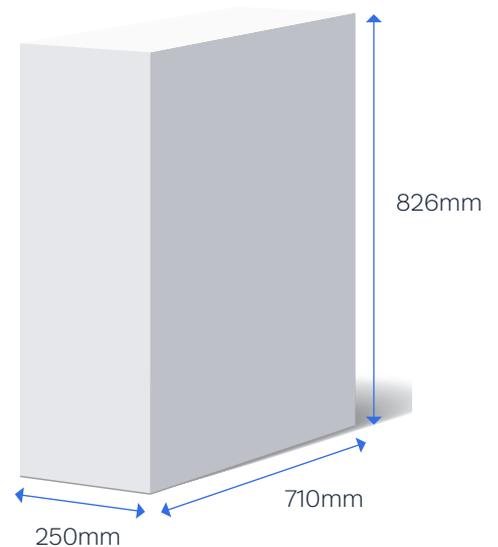
Intuitive graphical touchscreen

Internal airflow management, enabling reduced fan size and greater energy efficiency

Large connection terminals and secure gland plates

Internal batteries fitted to minimise footprint, with matching battery cabinets available for extended run times

Full side panel access and wheel mounted for ease of installation and maintenance



Key features

- | Outstanding 96.6% VFI-mode energy efficiency
- | Unity power factor
- | Overall footprint of 0.1775 m²
- | Communications interface:
Network interface SNMP card,
dry-contact, RS232
- | Single or dual input feed compatible

- | External maintenance bypass switch connection
- | Alarm history data log (500 events)
- | 4.3" Graphical touch screen display –
easy to use, advanced interface
- | Premium quality EnerSys brand
batteries as standard
- | Intelligent charging system able to
support additional battery cabinets for
extended autonomies

10 kVA / 20 kVA

- | Weight without batteries
43 kg / 44 kg
- | Dimensions
250mm W x 710mm D x 826mm H

Technical specification

General data	10 kVA Model, PW3P1/10/31/11/0	20 kVA Model, PW3P1/20/31/11/0
Topology	True online double conversion	True online double conversion
Parallel configuration	Up to 4 units (derate power output to 90% when configuring as a parallel unit system)	
Input		
Nominal input voltage	220/230/240V (Ph-N); 380/400/415V (Ph-Ph)	
Input voltage tolerance	176–276V Ph-N	
Input current THD	<=4% at 100% linear load	
Frequency range	46–54 Hz for 50 Hz systems / 56–64 Hz for 60 Hz system	
Power factor	≥0.99 at 100% load	
Output		
Output rated power	10 kW	20 kW
Output power factor	1.0 (single unit)	
Rated output voltage	220/230/240 VAC (Ph-N)	
Voltage distortion	≤2% at 100% linear load, ≤5% at non-linear load	
Overload capability (linear load)	AC and battery mode: 100–110% = 60 min; 110–125% = 10 min; >125–150% = 1 min; >150% immediately to bypass	
Nominal frequency	50 or 60 Hz ± 0.1 Hz	
Crest factor	3:1	
Efficiency		
Overall efficiency	AC mode: >96.6%; Battery mode: >95.5%	
In eco-mode configuration	99.0%	
Environment		
Protection rating	IP 20	
Storage temperature	-15 to +60°C for UPS, 0 to ~35°C for battery	
Operating temperature	0–40°C	
Relative humidity	0–95 % (non-condensing)	
Altitude (above sea level)	1,000 m without derating NB: Over 1,000 m the power derating is 1% every 100 m	
Acoustic noise (at 1 metre)	55 dB	58 dB
Batteries		
Type	12 V/9 Ah	
Numbers	20 pcs (up to 2 strings internal – 40 pcs)	32–40 pcs (up to 40 pcs internal batteries)
Recharge time	9 hours recovery to 90% capacity	
Charging current (max)	1.0 to 12.0 A (adjustable via display)	
Communications		
User interface	Touchscreen LCD display	
Communication cards (option)	Emergency Power Off (EPO), USB (for monitoring connection) and RS 232 (engineer use only) as standard. Slot for optional SNMP or dry contact card.	
Standards		
Safety	IEC / EN 62040-1	
Transportation	ETS 300019-2-2 class 2.3	
Ingress protection	IP20	
Weight /Dimensions		
Weight excluding batteries	43 kg	44 kg
Dimensions (mm) W x D x H	250 x 710 x 826	
Battery cabinets		
	Battery cabinet 40	Battery cabinet 80
Weight excluding batteries	22 kg	46 kg
Dimensions (mm) W x D x H	250 x 592 x 576	250 x 805 x 836



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