



REHLKO *PW* 1000PRO

Standalone tower or rack mount single-phase uninterruptible power supply with internal or external batteries

(1-3 kVA / kW)

Compact, convenient, *dependable* protection.

For server, network, laboratory, distribution and retail applications – combining high reliability and energy efficiency with advanced, service-life extending technologies to make it the perfect solution for critical single-phase applications.

Purpose-designed to meet the demands of modern single-phase applications.

Offering the flexibility of use in either standalone tower or standard 19" rack format, the Rehlko PW 1000PRO provides advanced, continuous protection.

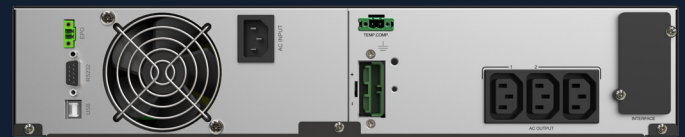
Operating in VFI (voltage and frequency independent) mode as standard, the unit completely regenerates the utility power to correct disturbances in voltage and / or frequency to provide clean AC power to critical loads and sensitive equipment.

In the event of a complete power failure, internal batteries seamlessly take up the load, whilst if longer autonomies are required additional external batteries can be added.



REHLKO PW 1000PRO

- | Compact, innovative design enables use in either tower or 19" rack format (with optional slides).
- | True online double conversion, Class 1 VFI-SS-111 topology with additional modes: VFD Eco-mode and CVCF frequency conversion mode.
- | Autonomies to suit your application via internal batteries or matching external battery cabinets.
- | Range of alarms and communication options for additional peace of mind – audible, LED, USB and RS232 as standard; SNMP / RS485 Modbus or dry contact relays as options.



1 kW



2 kW



3 kW

Advanced design

- | "Unity" output power factor (1.0) enables the kW load supported to be the same as the kVA rating of the UPS. This enables a smaller sized UPS to support a larger load compared to a traditional UPS with an output power factor of 0.8-0.9.
- | Electronic design allows the UPS to continue to use the mains supply across a wide voltage and frequency range. This reduces the need to switch to batteries, increasing resilience, extending battery service life and reducing ownership costs.
- | Smart functionality prevents damaging deep discharge of batteries and enables users to set a preferred power reserve for use at a later time.
- | Protect sensitive loads via continuous online VFI mode or if required use continuous voltage continuous frequency (CVCF) mode for applications requiring frequency conversion.

User-friendly operation

- | An easy-to-read LCD display provides a real-time view of all major system parameters and current status including load level, battery level, operating mode and programmable output status.
- | The Rehiko PW 1000PRO simply plugs in to a standard 13A socket whilst its output is via multiple IEC connector sockets.

Full system support

- | Rehiko PW 1000PRO models are backed by Rehiko's commitment to quality, reliability and personalised support.
- | Our local design teams can develop a system customised to your needs and supported by a maintenance contract tailored to your specific requirements.

Technical specification REHLKO PW 1000PRO (1–3 kVA / kW)

Capacity	1 kVA	2 kVA	3 kVA
Input			
Nominal voltage	110–300 VAC		
Frequency	44–66 Hz		
Phase	Single-phase		
Power factor	>0.99		
Output			
Voltage	200/208/220/230/240 VAC		
Voltage distortion	<3% with linear load, <7% with non-linear load		
Capacity	1000 VA / 1000 W	2000 VA / 2000 W	3000 VA / 3000 W
Power factor	1.0		
Wave form	Pure sine wave		
Frequency	50–60 Hz (selectable) with stability ± 1 Hz or ± 3 Hz (selectable)		
Output sockets	3 x 10A IEC C13	6 x 10A IEC C13	6 x 10A IEC C13, 1 x 16A IEC C19
Crest factor	3:1		
Efficiency	Up to 92% VFI / 98% ECO	Up to 93% VFI / 98% ECO	
Internal battery autonomy, mins	10 at 50% load, 3 at 100% load	11 at 50% load, 3 at 100% load	9 at 50% load, 2 at 100% load
Cold start from battery	Yes		
Battery			
Type	Sealed lead acid maintenance free (VRLA)		
Capacity	7.2 Ah	9.0 Ah	
Internal Quantity (pcs)	3	6	6
Matching external battery cabinet enables expansion of battery system for increased autonomies. Consult Rehlko for details.			
User Interface			
LEDs, LCD and function keys	Easy access to functions and parameters including: voltage, frequency, load percentage, battery voltage, output voltage, programmable outlet 1 and 2, self test, overload function, estimated uptime and UPS temperature		
On / Off / Alarm Function	Separate on / off keys. Alarm silence function		
Self-diagnostics	Upon power on and software control		
Protection			
Overload in line mode	<105% continuous. 106% or greater before switching to bypass: 106–110% for 10 mins, 111–130% for 1 min, 131–150% for 10s, 151–250% for 0.2s, >250% for 0.1s		
Overload in backup mode	<105% continuous. 106% or greater before shutting down: 106–110% for 30s, 111–130% for 10s, 131–150% for 1s, 151–250% for 0.2s, >250% for 0.1s. Buzzer continuously alarms		
Emergency Power Off, EPO	2-pole, initiates immediate UPS shut down		
Alarms			
Audible & visual	Mains power failure, low battery, bypass transfer and UPS fault		
Physical			
Dimensions (mm) W x D x H	440 x 454 x 88 (2U)	440 x 640 x 88 (2U)	
Net weight (Kg) with batteries	16	25	27
Ingress protection	IP20		
Environment			
Operating temperature	0°C – 40°C		
Altitude	<1000 m with no power derating, >1000 m with 1% derating for every 100 m		
Humidity	90% RH maximum, non-condensing		
Heat dissipation (at 50% / 100% load)	67 W / 95 W	109 W / 179 W	132 W / 242 W
Noise	≤ 50 dBA at 1m		
Connectivity			
Communication ports	Standard: USB (type B), RS232 and EPO. Optional: SNMP RS485 Modbus card and dry contact relay card		
Standards			
Regulatory	IEC EN 62040–1, IEC EN 62040–2 and IEC EN 62040–3 product. ISO 9001 and ISO 14001 manufacture		
Marking	CE, UKCA		



Exceptional 24/7/365
Service Support

UK

Woodgate, Bartley Wood
Business Park, Hook,
Hampshire RG27 9XA

Tel: +44 1256 386700

Email: uksales.ups@rehlko.com

www.ups.rehlko.co.uk

Singapore

3A International Business Park
12-10 ICON IBP Tower B
609935

Tel: +65 6264 6422

Email: salesups.sg@rehlko.com

www.ups.rehlko.sg

Ireland

Unit E, Baldonnell Business
Park, Baldonnell, Dublin 22
D22 X5R2

Tel: +353 (0) 1 460 6859

Email: ieinfo.ups@rehlko.com

www.ups.rehlko.ie



Rehlko is the new name for Kohler Uninterruptible Power