



# REHLKO *PW* 1000

Standalone tower or rack mount single-phase uninterruptible power supply

(6-10 kVA)

# Compact, convenient, *dependable* power.

For server, network, laboratory, distribution and retail applications – combining high reliability with low upfront costs to make it the perfect solution for mission critical applications.

Designed for single-phase uninterruptible power supply requirements.

Manufactured with the flexibility to meet the demands of today's critical applications, the Rehlko PW 1000 can be used as a standalone UPS device or installed into a standard 19" rack configuration, with connectivity options available for each.

The UPS completely regenerates the utility power to correct power disturbances in the mains and provides clean AC power, with voltage and frequency independency from the mains power supply (VFI).



## REHLKO PW 1000

- | 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
- | Range of output options for additional peace of mind including USB, RS232, RS485 and SNMP
- | Autonomies to suit your application and load via matching, parallelable battery cabinets



## Advanced design

- | 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.

## Convenient Connectivity

- | Power output via simple hardwired terminal block connectors. Power input via hardwired supply.

## 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.
- | Audible alarms and dedicated LEDs indicate key system alerts.

## Full system support

- | Rehlko PW 1000 models are backed by Rehlko Uninterruptible Power'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 1000 (6–10 kVA)

General Data	6 kVA	10 kVA
<b>Input</b>		
Nominal voltage	110–280 VAC (176–280 VAC without derating)	
Frequency	45–70 Hz	
Phase	Single-phase	
Power factor	>0.99 at 100% linear load	
<b>Output</b>		
Voltage distortion (THD)	<2% with linear load, <7% with non-linear load	
Voltage	200/208/220/230/240 VAC selectable	
Voltage regulation	+/-1% (until low battery warning)	
Capacity (1.0 rated power factor)	6000 VA/6000 W	10000 VA/10000 W
Wave form	Pure sine wave	
Crest factor	3:1	
Efficiency	Online mode (AC-AC), VFI: Up to 94%	Eco-mode, VFD: Up to 98%
Cold start from battery	Yes	
Input/output connection	Hardwired via terminal block	
<b>External battery cabinet</b>		
Type	Sealed lead acid maintenance free	
Capacity	12 V/9 AH	
<b>User Interface</b>		
LEDs, LCD and function keys	Easy access to functions and parameters including: voltage, frequency, load percentage, battery voltage, output voltage, 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	
<b>Alarms</b>		
Audible	Mains power failure, low battery, bypass transfer and UPS fault	
<b>Protection</b>		
Overload, inverter supply	Sliding scale: 105% continuous, 125% 30 secs, 150% 160 ms, >150% immediate transfer to bypass	
<b>Physical</b>		
Dimensions (mm) W x D x H	440 x 680 x 88 (2U)	440 x 680 x 132 (3U)
Net weight (kg)	18.5	21.5
Ingress protection	IP20	
<b>Environment</b>		
Operating temperature	0°C – 40°C (UPS only. For effective operation / max service life, advised batteries to be 20–25°C)	
Altitude	<1000 m with no power derating, >1000 m with 1% derating for every 100 m	
Humidity	0–90% (non-condensing)	
Heat dissipation (100% linear load)	<450 W	<650 W
Noise	≤60 dBA at 1 m	
<b>Connectivity</b>		
Communication ports	USB (Type B), EPO / Remote On / Off Contact and additional slots for optional cards	
Optional connectivity accessories	Cards: SNMP, RS232, RS485 ModBus, dry contact relays	
<b>Standards</b>		
Regulatory	ISO 9001 manufacture; IEC EN 62040-1; IEC EN 62040-2; and IEC EN 62040-3	
Marking	CE, UKCA	
<b>External battery bank (up to six per UPS)</b>		
Type	Sealed lead acid maintenance free (VRLA)	
Capacity	12 V/9 Ah x 20 pcs connected in a single string	
Weight and Dimensions	11 kg excl batteries; 61 kg incl. 20 batteries. W440 mm x D685 mm x H132 mm (3U)	
Regulatory	ISO 9001 manufacture; IEC EN 62040-1; IEC EN 62040-2; and IEC EN 62040-3	
Autonomy at 75% load – 1 cabinet	12 mins	5 mins
Autonomy at 75% load – 2 cabinets	30 mins	15 mins
Autonomy at 75% load – 3 cabinets	51 mins	19 mins
Autonomy at 75% load – 6 cabinets	108 mins	60 mins



Exceptional 24/7/365  
Service Support

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Rehlko is the new name for Kohler Uninterruptible Power