

# KOHLER®

UNINTERRUPTIBLE  
POWER



ON

OFF

SELECT

## KOHLER *PW* 1000ST

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

(1-10 kVA)

# Compact, footprint, *dependable* power.

To support mission critical applications such as servers, laboratory and medical equipment, retail applications and control systems requiring no-break, conditioned power and customisable battery autonomy times.

Designed for demanding single-phase uninterruptible power provision.

By completely regenerating the utility power to correct for disturbances, the KOHLER PW 1000ST UPS provides clean “VFI” AC power independent of mains voltage and frequency variations.

Available in 5 ratings, with internal batteries or high power charger for extended autonomy via external batteries, all feature high efficiency advanced electronic design.



## KOHLER PW 1000ST

- | Compact tower design, wheeled for 6-10 kVA versions, minimises footprint and simplifies installation and servicing
- | True online double conversion, Class 1 VFI-SS-111 topology with unity (1.0) output power factor
- | Quiet operation, low heat output design with working temperature -5°C to +40°C
- | Range of communication outputs for additional peace of mind: EPO, RS232 and USB card as standard; SNMP, RS485 and dry contact card as option



## Advanced design

- | Innovative electronic design with wide input voltage and frequency ranges provides both high efficiency and increased battery life. In addition, end-discharge voltage management prevents damaging deep discharge of batteries during a power failure.
- | High quality electrical components and conformally coated PCBs for long service life.
- | Standard or extended autonomy (XA) versions, with uprated chargers for larger battery systems to enable faster recharging and provide increased resilience.

## Full system support

- | Kohler PW 1000ST models are backed by Kohler Uninterruptible Power's commitment to quality, reliability and personalised support.

## Easy installation, Convenient connectivity

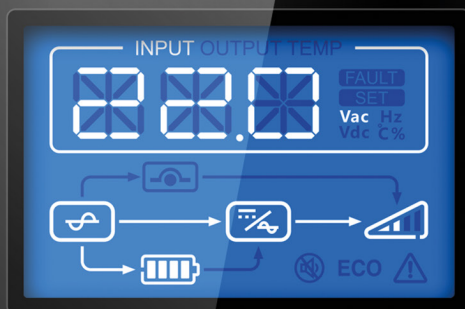
- | PW 1000ST 1 kVA model is powered from a standard mains lead, whilst power output is through 4 x IEC 320 C13 sockets.
- | PW 1000ST 2-3 kVA mains connection is via a C19 lead, whilst power output is provided through 6 x IEC 320 C13 and 1 x IEC 320 C19 output sockets.
- | PW 1000ST 6-10 kVA power supply and output is via terminal connections.

## User-friendly operation

- | An easy-to read LCD display with a wide 140° viewing angle show all major system parameters and status of load level, battery and operating mode plus any alarms.

# Technical specification **KOHLER PW 1000ST**

Capacity	1 kVA	2 kVA	3 kVA	6 kVA	10 kVA
Input					
Nominal voltage	120-295 Vac (176-295 at full load)			80-275 Vac (176-275 at full load)	
Frequency	40-70 Hz (50/60 Hz auto-sensing)				
Phase	Single-phase				
Power factor	≥0.99				
Output					
Voltage	208/220/230/240±1% Vac (selectable on display panel)				
Voltage distortion	Linear load: ≤2% (resistive full load), Non-linear load: ≤4% (full load)				
Capacity	1000 VA	2000 VA	3000 VA	6000 VA	10,000 VA
Power factor	1.0				
Wave form	Pure sine wave				
Frequency	50/60 Hz ±0.2% (battery mode)				
Output sockets	4 x IEC 320 C13	6 x IEC 320 C13 + 1 x IEC 320 C19		Terminal connections	
Crest factor	3:1				
Efficiency	Up to 92%	Up to 93%	Up to 94%	Up to 95%	
Internal battery autonomy (100% load)	3 minutes at full load			5 minutes	1 minute
Cold start from battery	Yes				
Battery					
Type	Sealed lead acid VRLA maintenance-free				
Voltage (Standard)	24 Vdc	48 Vdc	72 Vdc	192 Vdc	
Internal battery (Standard)	2 x 9 Ah 12V	4 x 9 Ah 12V	6 x 9 Ah 12V	16 x 7 Ah 12V	16 x 9 Ah 12V
Voltage (Extended Autonomy)	36 Vdc	72 Vdc	96 Vdc	192-240 Vdc	
Charger current	1 A (Standard) / 4 A (Extended Autonomy)			1-8 A (adjustable)	
User Interface					
LCD display and keys	Clear, backlit 140° visual angle display for easy access to parameters and functions including: UPS mode (mains, bypass, battery or ECO), alarm indication, AC voltage, DC voltage, frequency, temperature and load percentage. Separate on / off buttons to avoid errors. Menu access button and audible alarm silence function.				
Audible and visual alarms	Mains power failure, low battery, bypass transfer and UPS fault				
Self-diagnostics	Run on power-up and then continuously during operation				
Protection					
Overload AC mode & backup mode (delay before switching to bypass)	Up to 100% of rated load continuous Up to 120% of rated load for 5 seconds +120% of rated load for 200 milliseconds			Up to 105% of rated load continuous Up to 120% of rated load for 30 seconds +120% of rated load for 500 milliseconds	
Emergency Power Off, EPO	Yes				
Physical					
Standard UPS dims (mm), W x D x H	145 x 360 x 225	190 x 400 x 330		230 x 502 x 553	
Standard UPS weight, with int. batteries (kg)	9.2	17.7	22.9	54.5	56.2
Extended Autonomy UPS dims. (mm), W x D x H	145 x 360 x 225	190 x 400 x 330		190 x 422 x 337	
External Autonomy weight, excl. batteries (kg)	4.5	8.5	9.2	10.9	12.5
Ingress Protection (IP) rating	IP20				
Environment					
Operating temperature	-5°C to +40°C				
Altitude	Up to 1000m with no derating				
Humidity	0-95%, non-condensing				
Noise	<50 dB			<55 dB	
Connectivity					
Communication ports	RS232 + EPO + USB card (Optional SNMP, RS485 + dry contact card)				
Standards					
Regulatory	EN IEC 62040-1, EN IEC 62040-2				



ON

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Exceptional 24/7/365  
Service Support

### Singapore

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Kohler Uninterruptible Power is part of Rehlko,  
the new name for Kohler Energy.

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