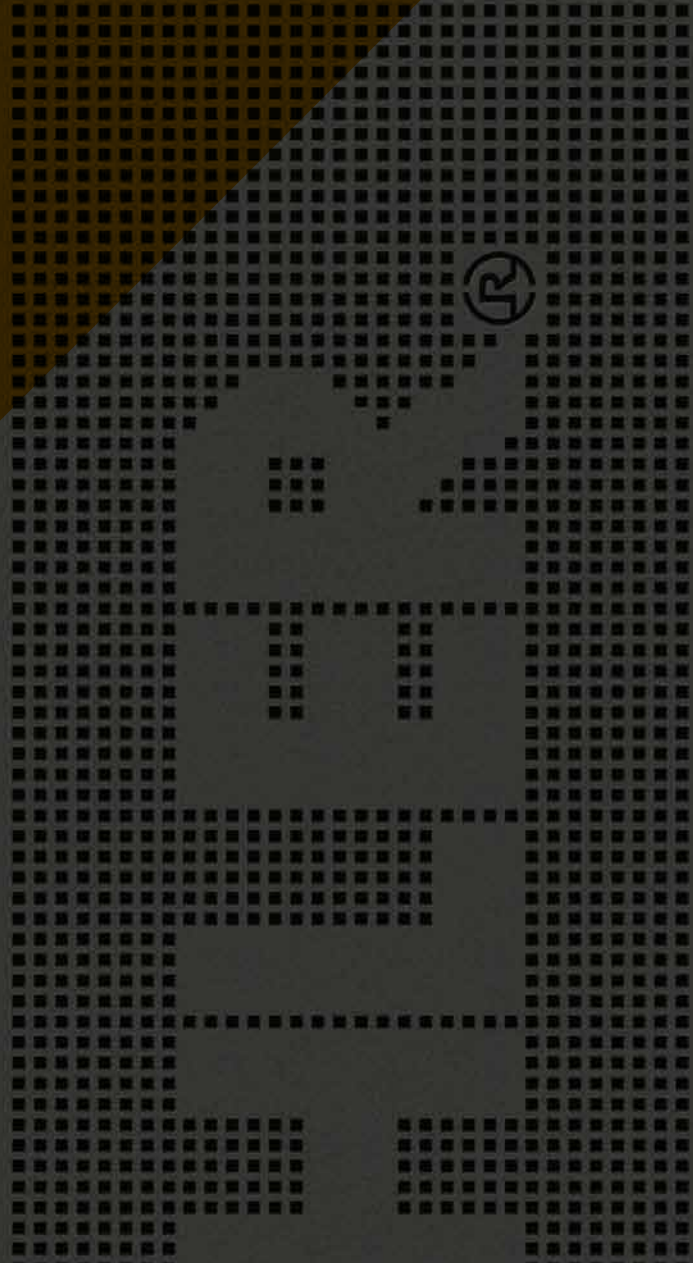


# PowerWAVE 3000/P1 (10 & 20 kVA)

Parallelable up to 80 kVA/kW

Compact and advanced,  
the new PowerWAVE 3000/P1  
is the most energy-efficient  
single-phase UPS in its class.

powerWAVE 3000/P1



# powerWAVE 3000/P1



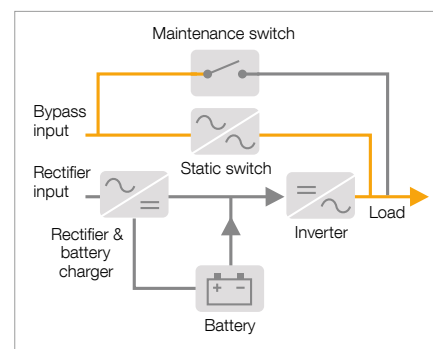
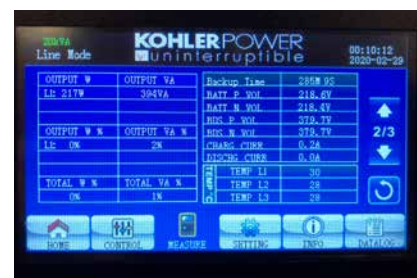
The new Kohler PowerWAVE 3000/P1 solves the problem of providing economic-to-run, dependable critical power protection for higher load single phase applications such as vital servers, networks and telecommunications.

Compact, easy to install and operate, with an advanced, intuitive touchscreen display, the 10 kVA or 20 kVA double-conversion 3000/P1 is also the most energy efficient UPS in its class. For loads to 80 kVA, up to four units can be paralleled.

In launching the PowerWAVE 3000/P1, Kohler Uninterruptible Power is responding to key market trends:

- Energy cost and carbon emissions concerns rising
- Rising loads but restricted space
- The need to balance load protection with overload safety

In addition, KUP recognises many IT and FM professionals depend on high quality guidance and support to select appropriate, modern and cost-effective solutions. A strong, 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



Intuitive graphical touchscreen

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

Large connection terminals and secure gland plates

Optional internal batteries

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

### Key features

Most energy efficient unit in its class (96.6%)

Unity power factor

Overall footprint of 0.1775 m<sup>2</sup>

Communications interface: Network interface SNMP card, dry-contact

Dual feed

External maintenance bypass switch connection

Alarm history data log (500 events)

5" Graphical touch screen display – easy to use, advanced interface

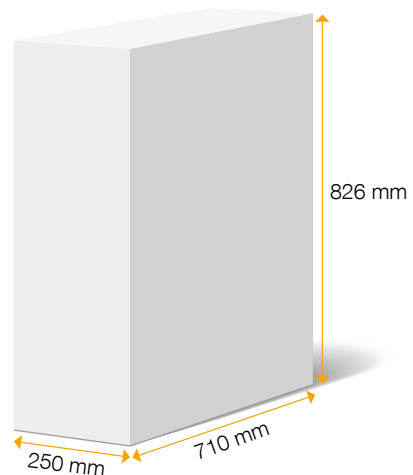
Premium quality batteries as standard

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



# PowerWAVE 3000/P1

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)	
<b>Input</b>		
Nominal input voltage	220/230/240V (Ph-N); 380/400/415V (Ph-Ph)	
Input voltage tolerance	176-276V Ph-N	
Input current THD	≤4% @ 100% linear load	
Frequency range	46–54 Hz for 50 Hz systems / 56–64 Hz for 60 Hz system	
Power factor	≥0.99 @ 100% load	
<b>Output</b>		
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% @ 100% linear load, ≤5% @ 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	
<b>Efficiency</b>		
Overall efficiency	AC mode: >96.6%; Battery mode: >95.5%; Eco mode 99.0%	
In eco-mode configuration	99.0%	
<b>Environment</b>		
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
<b>Batteries</b>		
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)	
<b>Communications</b>		
User interface	Touchscreen LCD display	
Communication cards (option)	Emergency Power Off (EPO) and dry contacts as standard. Slot for optional SNMP card.	
<b>Standards</b>		
Safety	IEC / EN 62040-1	
Transportation	ETS 300019-2-2 class 2.3	
Ingress protection	IP20	
<b>Weight /Dimensions</b>		
Weight excluding batteries	43 kg	44 kg
Dimensions (mm) W x D x H	250 x 710 x 826	
<b>Battery cabinets</b>		
	<b>Battery cabinet 40</b>	<b>Battery cabinet 80</b>
Weight excluding batteries	22 kg	46 kg
Dimensions (mm) W x D x H	250 x 592 x 576	250 x 805 x 836