

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



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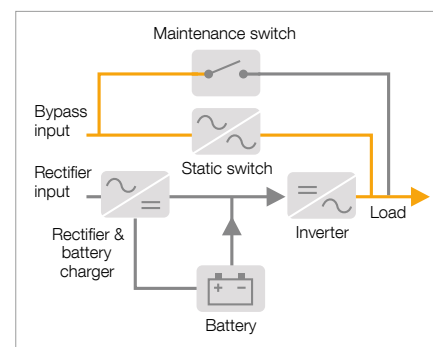
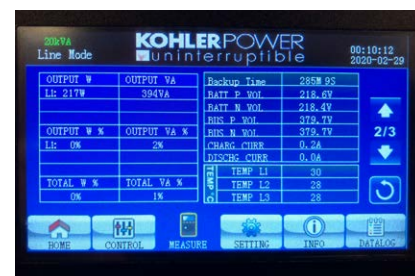
The new Kohler PowerWAVE 3000/P1 solves the problem of providing economic-to-run, dependable critical power protection for higher load single phase applications such as vital servers, networks and telecommunications.

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 m²

Communications interface:
Network interface SNMP card,
dry-contact, WiFi card, RS232

Dual feed

External maintenance bypass switch
connection

Alarm history data log (500 events)

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

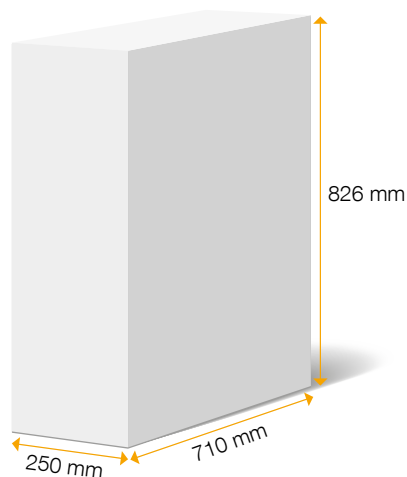
Premium quality EnerSys brand batteries
as standard

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



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)			
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% @ 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			
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% @ 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			
Efficiency				
Overall efficiency	AC mode: >96.6%; Battery mode: >95.5%; Eco mode 99.0%			
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	