

# PowerWAVE 3000/P1

(10 & 20 kVA)

Parallelable up to 80 kVA/kW

## Technical Specification

powerWAVE 3000/P1



**KOHLER POWER**  
uninterruptible

# 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