

PW 3000/P1

(10 & 20 kVA)

Parallelable up to 80 kVA/kW

Technical Specification

powerWAVE 3000/P1



KOHLER POWER
uninterruptible

PW 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