

Kohler PW1000/ORM

(1kVA – 20kVA)



Either tower or rack-mounted, the Kohler PW1000/ORM is an online double conversion single-phase UPS covering power requirements from 1–20 kVA. Providing a continuous sinusoidal, filtered and stabilised voltage to the load, it protects against the loss of power and mains disturbances.



Combining all the smart features you would expect in a UPS, including high efficiency of up to 96.5%, a power factor of 0.9, an LCD display and a wide range of communications interface options, the Kohler PW1000/ORM is affordable, reliable and flexible.

Key features

- Online double-conversion technology
- Power range: 1, 2, 3, 6, 10, 15 & 20 kVA
- 0.9 Power factor
- Up to 96.5% efficiency (ECO mode)
- LCD/LED display
- Interfaces – RS-232, SNMP, USB, dry contact relay
- Convertible tower/rack-mounted design
- Extended battery autonomy options

Technical specification

Model	1kVA/900W	2kVA/1.8kW	3kVA/2.7kW	6kVA/5.4kW	10kVA/9kW	15kVA/13.5kW	20kVA/18kW
Input							
Phase	Single + G			160–280VAC	1Φ, line+ neutral+ground; 3Φ, R,S,T + neutral+ground	3Φ, R,S,T + neutral+ground	
Voltage range	110–300 VAC			110-280VAC (1Φ)	110–280 VAC (1Φ) / 277–485 VAC (3Φ)	277–485 VAC (3Φ)	
Frequency range	44–66Hz (auto sensing)						
Input power factor	>0.99 @ 100% linear load			>0.99 (1Φ) / 0.95 (3Φ) at linear load		Up to 0.95 at linear load	
Output							
Voltage	200/208/220/230/240 VAC						
Capacity	900W	1800W	2700W	5400W	9000W	13500W	18000W
Power factor	0.9						
Harmonic distortion	<3% @100% linear load, 7% @100%non-linear load			<3% at linear load			
Voltage regulation	±2%						
Frequency range	±1Hz or ±3Hz (selectable)			±1Hz or ±3Hz (selectable battery mode)			
Crest factor	3.1						
Output waveform	Pure sine wave						

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Efficiency							
Line mode	Up to 92%						
High efficiency mode	Up to 96.5%			90%		91%	
Battery							
Capacity	12VDC/7Ah		12VDC/9Ah		12VDC/7Ah	12VDC/9Ah	
Number of batteries	2/3	4/6	6	8	20		
Battery voltage	36VDC	72VDC	72VDC	96VDC	240VDC		
Display							
Status on LED + LCD	Line mode, back-up mode, ECO mode, bypass supply, battery low, battery fault/disconnect, overload, and transferring with interruption and UPS fault						
LCD	Voltage, frequency, load level, battery level, output current, and estimated autonomy						
Self-diagnostics	Upon power-on, front panel setting and software control, 24-hour routine check						
Environmental							
Operation temperature	0–40°C/32–104°F						
Operation humidity	20–95%RH (without condensing)						
Altitude	1000m/3280ft without derating						
Noise level	≤50dBA@ 1 metre front			≤50dBA		≤60dBA	
Interface							
Type	Standard RS-232, EPO			Standard RS-232		Standard RS-232, EPO	
Communication slots	USB, dry contact relay, SNMP/WEB card			2nd RS232, USB, RS485, relay contact, SNMP/WEB card, etc			
Compatible platforms	Microsoft Windows series, Linux, Mac, etc						
Standards and certifications							
Safety	EN62040-1, UL1778					EN62040-1-1	
EMC	EN62040-2, EN61000-3-3, EN61000-3-3, FCC class A					EN62040-2	
Certification	CE						
Other							
Audible or visual alarm	Line failure, battery low, transfer to bypass, system fault conditions						
Protection	Overload, over temperature, short circuit, discharge, overcharge						
Function: multi mode	Normal/ECO/CVCF						
Function: DC start	Yes						
Dimensions (cm) WxDxH	440 x 88 x 405	440 x 88 x 600		290 x 748 x 645	440 x 2U x 680	440 x 3U x 680	440 x 4U x 680
Weight (kg)	12	23	25	31	24	30	42

Model	BC0636-2U	BC12072-2U	BBC20N0009	BBC20V0009
Extended battery cabinets				
Number of batteries	6	12	20	
Battery type	Lead acid maintenance free 12VDC 7Ah/9Ah			
Dimensions (mm) WxDxH	440 x 88 x 430	440 x 88 x 581	440 x 30 x 680	

Specification is subject to change without prior notice.

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