

Kohler PW 1000/LT (UPS 10-50 kVA)

Model	800 VA/360 W	1500 VA/600 kW	2200 VA/1200 W
Input			·
Voltage range	160 VAC ~ 290 VAC	160 VAC ~ 290 VAC	
Frequency range	45 Hz~65 Hz (auto sensing)	45 Hz~65 Hz (auto sensing)	
Output (AC mode)			
AVR Regulation	Increase output 15% (input -9% ~ -25%);	decrease output 15% (input +9% ~ +25%)	
Output (inverter mode)			
Voltage	220/230/240 VAC +/- 10%		
Frequency	50/60 Hz +/- 1 Hz		
Waveform	Simulated sine wave		
Capacity	800 VA	1500 VA	2200 VA
Transfer time	2–6 minutes typical		
Back-up time	5~30 minutes depending on typical IT loa	d	
Battery			
Voltage	12 VDC		24 VDC
Туре	Sealed maintenance-free lead ccid VRLA	type	
Capacity	12 V/7 Ah		12 V/9 Ah
Recharge time	4~6 hours (to 90%)		
Display			
LED (standard)	3 LEDs for line mode, battery mode and fault	6 LEDs for line mode, battery mode, fault,	, load % and battery capacity
Protection			
Overload AC mode	>100% Input fuse blown and buzzer cont	inuously sounds	
Overload inverter mode	>100% Buzzer continuously sounds until	battery cut-off	
Short circuit	Shuts down immediately		
Modem (optional)	RJ11		
Network (optional)	RJ45		
Environment			
Operation temperature	0-40°C/32-104°F		
Operation humidity	95% RH maximum (non-condensing)		
Altitude	1000 m/3280 ft without derating		
Noise level	≤40 dBA		
Interface			
Туре	Standard: USB communication; optional:	RS-232 communication	
Compatible platforms	Microsoft Windows Series, Linux, Mac, et	c.	
Standards and certification	ns		
Safety	EN62040-2		
EMC/surge standard	EN61000-3-2, EN61000-3-3		
Certification	CE		
Other			
Alarm	Battery mode – buzzer sounds every 1 se	cond; battery low – buzzer sounds every 0.	1 second
Dimensions (cm) W x D x H	100 × 140 × 292	148 × 198 × 315	
Weight (kg)	4.5 kg	8 kg	12 kg
Output connections	4 x IEC320 outlets or 3 x universal outlets	6 x IEC320 outlets or 4 x universal outlets	

Kohler PW 1000/OT (UPS 10-50 kVA)

Model	1 kVA/900 W	2 kVA/1.8 kW	3 kVA/2.7 kW	6 kVA/5.4 kW	10 kVA/9 kW	15 kVA/13.5 kW	20 kVA/18 kW	
Input								
Phase	Single + G			1Ф, line+ neutral+ground	1Φ, line+ neutral+ground; 3Φ, R,S,T+ neutral+ground	3Ф, R,S,T + neutr	al+ground	
Voltage range	110-300 VAC			110-280 VAC (1Φ)	110-280 VAC (1Ф) / 277-485 VAC (3Ф)	277-485 VAC (3Φ)		
Frequency range	44-66 Hz (auto s	ensing)			45–65 Hz			
Input power factor	>0.99 @ 100% lin	near		Up to 0.99 (1Φ) /	0.95 (3Ф) at linear lo	oad		
Output								
Voltage	200/208/220/23	0/240 VAC						
Capacity	900 W	1800 W	2700 W	5400 W	9000 W	13500 W	18000 W	
Power factor	0.9							
Voltage distortion	<3% @100% line	ear load, 7% @100	%non-linear load	<3% @100% line	ar load			
Voltage regulation	±1%							
Frequency range	44-66 Hz (auto s	sensing)		±1 Hz or ±3 Hz (s	electable battery m	iode)		
Crest factor	3.1			1				
Output waveform	Pure sine wave							
Efficiency								
Line mode	Up to 92%							
High efficiency mode	Up to 96.5%							
Battery	l.							
Capacity	12 VDC/7 Ah		12 VDC/9 Ah	12 VDC/5 Ah or 12 VDC/7 Ah	12 VDC/ 9 Ah VDC	NA		
Battery number	3	6	6	20				
Battery voltage	36 VDC	72 VDC	72 VDC	240 VDC				
Display								
LCD	Voltage/frequenc	cy/load level/outpu	t current/estimate	d autonomy				
Self-diagnostics	Upon power-on,	front panel setting	and software con	trol, 24-hours routir	ie checking			
Environmental								
Operation temperature	0-40°C/32-104°F	=						
Operation humidity	20–95% RH (with	nout condensing)		20-90%RH (with	out condensation)			
Altitude	1000 m/3280 ft v	without derating		1				
Noise level	≤50 dBA @ 1 me	etre front		≤50 dBA		≤60 dBA		
Interface				'		'		
Туре	Standard RS-232	2, EPO		Standard RS-232		Standard RS-232	, EPO	
Communication slots	USB, dry contact	t relay, SNMP/WEE	3 card	2nd RS232, USB, RS485, relay contact, SNMP/WEB card, etc				
Compatible platforms	Microsoft Window	ws series, Linux, N	lac, etc					
Standards and certification	ons							
Safety	EN62040-1, UL1	778				EN62040-1-1		
EMC	EN62040-2, EN6	61000-3-3, EN610	000-3-3, FCC class	s A		EN62040-2		
Certification	CE							
Other								
Audible or visual alarm	Line failure/batte	ery low/transfer to b	oypass/system fau	ılt				
Protection		emperature, short of						
Function: multi mode	Normal/ECO/CV	<u> </u>						
Function: DC start	Yes			Up to 90% (line m	ode)	Up to 90% (without	ut transformer)	
	i .			1				
Dimensions (cm) W x D x H	154 x 211 x 383	192 x 250 x 470	192 x 250 x 525	290 x 645 x 748				

Model	BT06036X	BT12072X			
Extended battery cabinets					
Number of batteries	6	12			
Battery type	Lead acid maintenance free 12V 7 Ah/9 Ah				
Dimensions (mm) W x D x H	154 x 258.7 x 404	192 x 320 x 553			

Kohler PW 1000/ORM (UPS 10-50 kVA)

Model	1 kVA/900 W	2 kVA/1.8 kW	3 kVA/	2 7 kW	6 kVA/5.4 kW	10 kVA/9 kW	15 kVA/13.5 kW	20 kVA/18 k
Input	1 KVA/ 900 W	2 KVA/ 1.0 KVV	J KVAV	2.7 KVV	0 KVA/ 3.4 KW	TO KVA/3 KVV	13 KVAV 13.3 KVV	ZU KVAV IU K
	Single + G				160-280 VAC	1Ф, line+	20 D.C.T., pourtro	l around
Phase	Chilgie i d				100-200 VAC	neutral+ground; 3Φ, R,S,T + neutral+ground	3Ф, R,S,T + neutral+ground	
Voltage range	110–300 VAC			110-280 VAC (1Φ)	110-280 VAC (1Φ) / 277-485 VAC (3Φ)	277-485 VAC (3Φ)		
Frequency range	44-66 Hz (auto s	ensing)						
Input power factor	>0.99 @ 100% lir	near load			>0.99 (1Φ) / 0.95	(3Φ) at linear load	Up to 0.95 at linear	load
Output								
Voltage	200/208/220/23	200/208/220/230/240 VAC						
Capacity	900 W	1800 W	2700 W	/	5400 W	9000 W	13500 W	18000 W
Power factor	0.9							
Harmonic distortion	<3% @100% linear load, 7% @100% non-linear load <3% at linear load							
Voltage regulation	±2%							
Frequency range	±1 Hz or ±3 Hz (s	selectable)			±1 Hz or ±3 Hz (s	electable battery m	ode)	-
Crest factor	3.1							
Output waveform	Pure sine wave							
Efficiency								
Line mode	Up to 92%							
High efficiency mode	Up to 96.5%				90%		91%	
Battery					1		ı	
Capacity	12 VDC/7 Ah		12 VDC	C/9 Ah	12 VDC/7 Ah	12 VDC/9 Ah		
Number of batteries	2/3	4/6	6	8	20	I		
Battery voltage	36 VDC	72 VDC	72 VDC	96 VDC	240 VDC			
Display								
Status on LED + LCD		-up mode, eco mo with interruption an			, battery low, batter	y fault/disconnect,	overload,	
LCD	Voltage, frequenc	cy, load level, batte	ry level, c	output cur	rent, and estimated	dautonomy		
Self-diagnostics	Upon power-on,	front panel setting	and soft	ware cont	rol, 24-hour routine	check		
Environmental								
Operation temperature								
	0-40°C/32-104°F							
Operation humidity	0-40°C/32-104°F 20-95% RH (with							
Operation humidity Altitude		nout condensing)						
Altitude	20–95% RH (with	nout condensing)			≤50 dBA		≤60 dBA	
Altitude Noise level	20-95% RH (with 1000m/3280ft wi	nout condensing)			≤50 dBA		≤60 dBA	
Altitude Noise level Interface	20-95% RH (with 1000m/3280ft wi	nout condensing) ithout derating etre front			≤50 dBA Standard RS-232		≤60 dBA Standard RS-232,	EPO
Altitude Noise level Interface Type	20–95% RH (with 1000m/3280ft wi ≤50 dBA @ 1 me	nout condensing) ithout derating etre front	3 card		Standard RS-232	,		
Altitude Noise level Interface Type Communication slots	20–95% RH (with 1000m/3280ft wi ≤50 dBA @ 1 me Standard RS-232 USB, dry contact	nout condensing) ithout derating stre front			Standard RS-232	,	Standard RS-232,	
Altitude Noise level Interface Type Communication slots Compatible platforms	20–95% RH (with 1000m/3280ft wi ≤50 dBA @ 1 me Standard RS-232 USB, dry contact Microsoft Window	nout condensing) ithout derating etre front 2, EPO t relay, SNMP/WEE			Standard RS-232	,	Standard RS-232,	
Altitude Noise level Interface Type Communication slots Compatible platforms Standards and certificatio	20–95% RH (with 1000m/3280ft wi ≤50 dBA @ 1 me Standard RS-232 USB, dry contact Microsoft Window	nout condensing) ithout derating etre front 2, EPO t relay, SNMP/WEE ws series, Linux, M			Standard RS-232	,	Standard RS-232,	
Altitude Noise level Interface Type Communication slots Compatible platforms Standards and certification Safety	20–95% RH (with 1000m/3280ft wi ≤50 dBA @ 1 me Standard RS-232 USB, dry contact Microsoft Window Dns EN62040-1, UL1	nout condensing) ithout derating etre front 2, EPO t relay, SNMP/WEE ws series, Linux, M	fac, etc	FOC class	Standard RS-232 2nd RS-232, USE	,	Standard RS-232, ntact, SNMP/WEB c	
Altitude Noise level Interface Type Communication slots Compatible platforms Standards and certificatio Safety EMC	20–95% RH (with 1000m/3280ft wi ≤50 dBA @ 1 me Standard RS-232 USB, dry contact Microsoft Window Dns EN62040-1, UL1	nout condensing) ithout derating thre front 2, EPO t relay, SNMP/WEE ws series, Linux, M	fac, etc	FCC class	Standard RS-232 2nd RS-232, USE	,	Standard RS-232, ntact, SNMP/WEB c	
Altitude Noise level Interface Type Communication slots Compatible platforms Standards and certificatio Safety EMC Certification	20–95% RH (with 1000m/3280ft windowns) Standard RS-232 USB, dry contact Microsoft Windowns EN62040-1, UL1 EN62040-2, EN6	nout condensing) ithout derating thre front 2, EPO t relay, SNMP/WEE ws series, Linux, M	fac, etc	FCC class	Standard RS-232 2nd RS-232, USE	,	Standard RS-232, ntact, SNMP/WEB c	
Altitude Noise level Interface Type Communication slots Compatible platforms Standards and certification Safety EMC Certification Other	20–95% RH (with 1000m/3280ft windown) 250 dBA @ 1 me Standard RS-232 USB, dry contact Microsoft Windown 2008 EN62040-1, UL1 EN62040-2, EN66 CE	nout condensing) ithout derating thre front 2, EPO t relay, SNMP/WEE ws series, Linux, M	1ac, etc		Standard RS-232, USE	,	Standard RS-232, ntact, SNMP/WEB c	
Altitude Noise level Interface Type Communication slots Compatible platforms Standards and certification Safety EMC Certification Other Audible or visual alarm	20–95% RH (with 1000m/3280ft wi ≤50 dBA @ 1 me Standard RS-232 USB, dry contact Microsoft Window EN62040-1, UL1 EN62040-2, EN6 CE Line failure, batte	nout condensing) ithout derating stre front 2, EPO t relay, SNMP/WEE ws series, Linux, M 1778 61000-3-3, EN610	lac, etc	system fa	Standard RS-232 2nd RS-232, USE s A	,	Standard RS-232, ntact, SNMP/WEB c	
Altitude Noise level Interface Type Communication slots Compatible platforms Standards and certification Safety EMC Certification Other Audible or visual alarm Protection	20–95% RH (with 1000m/3280ft wi ≤50 dBA @ 1 me Standard RS-232 USB, dry contact Microsoft Windox EN62040-1, UL1 EN62040-2, EN6 CE Line failure, batte Overload, over te	nout condensing) ithout derating etre front 2, EPO t relay, SNMP/WEE ws series, Linux, M 1778 61000-3-3, EN610 erry low, transfer to	lac, etc	system fa	Standard RS-232 2nd RS-232, USE s A	,	Standard RS-232, ntact, SNMP/WEB c	
Altitude Noise level Interface Type Communication slots Compatible platforms Standards and certification Safety EMC Certification Other Audible or visual alarm Protection Function: multi mode	20–95% RH (with 1000m/3280ft wi ≤50 dBA @ 1 me Standard RS-232 USB, dry contact Microsoft Windox EN62040-1, UL1 EN62040-2, EN6 CE Line failure, batte Overload, over te	nout condensing) ithout derating etre front 2, EPO t relay, SNMP/WEE ws series, Linux, M 1778 61000-3-3, EN610 erry low, transfer to	lac, etc	system fa	Standard RS-232 2nd RS-232, USE s A	,	Standard RS-232, ntact, SNMP/WEB c	
	20–95% RH (with 1000m/3280ft wi ≤50 dBA @ 1 me Standard RS-232 USB, dry contact Microsoft Windox EN62040-1, UL1 EN62040-2, EN6 CE Line failure, batte Overload, over te	nout condensing) ithout derating etre front 2, EPO t relay, SNMP/WEE ws series, Linux, M 1778 61000-3-3, EN610 erry low, transfer to	lac, etc	system fa	Standard RS-232 2nd RS-232, USE s A	,	Standard RS-232, ntact, SNMP/WEB c	



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