

Kohler EW6000 Transformerless

(UPS 10–600 kVA)

Technical Specification

KOHLERPOWER
uninterruptible



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Kohler EW 6000

Model	10S/310	20S/320	30S/330	3340	3350	3360	3380	33100	33120		
Input											
Voltage (Vac)	380/400/415 (138~485 L-L)										
Frequency (Hz)	40~70										
Bypass voltage (Vac)	380/400/415: -20%~+15%										
Power factor	≥0.99										
Phase	3-4W+PE										
Output											
Capacity (kVA)	10	20	30	40	50	60	80	100	120		
Power factor	1										
Voltage (Vac)	L-N: 220/230/240±1%; L-L: 380/400/415±1%										
Frequency (Hz)	50/60±0.2% (battery mode)										
Phase	3-4W+PE										
Unbalance 3-phase voltage stabilisation with full load	≤2%										
Waveform	Pure sine wave, THD <1% at linear										
Transfer time (ms)	0										
Efficiency online	≥95%										
Efficiency eco mode	≥99%										
Overload	105~115% for 60 min, 116~130% for 10 min, 131~150% for 1 min, above 150% for 200 ms										
Battery											
Battery voltage (Vdc)	±192 (±180/±204/±216/±228/±240 selectable for long backup type)										
BATT type	32×7AH 12V (34/36 optional)/ external	36×9AH 12V (32/34 optional)/ external	64×9AH 12V(68/72 optional)/ external	External							
Charging current (A)	1~10 settable			1~10 settable	1~20 settable			1~30 settable			
Other											
Communication interface	RS485 MODBUS, dry contact (SNMP adapter optional)										
Display	Touchscreen + LED										
Alarm	AC input abnormal, low battery, overload, failure										
Protection	Output short-circuit, overload, over-temperature, battery low voltage, output over/low voltage										
Noise	<65 dB										
Working temperature	0~40℃										
Relative humidity	0~95%, no condensation										
Humidity	0~95%										
IP	IP20 (high level option)										
Approvals	EN62040-2:2006										
Dimensions (mm) W x D x H	320 × 840 × 1030 / 320 × 840 × 867		320 × 840 × 1400 / 320 × 840 × 867	320 × 840 × 867	450 × 840 × 967			450 × 840 × 1400			
Weight (kg)	240/120	250/120	350/120	120	160		210	242	242		

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Model	160 kVA	200 kVA
Input		
Nominal voltage	380/400/415 Vac (L-L)	
Voltage range	209–475 Vac (L-L)	
Rectifier frequency	50/60±10% Hz	
Bypass synchronisation tracking range	50/60±5% Hz (±10% optional)	
Bypass voltage range	+20% (+15% optional) -30% (-15%, -20% optional) Vac	
Power factor (PF)	0.9	
THDI	<3%	
Phase	3-4W+PE	
Output		
Capacity	160 kVA	200 kVA
Power factor	0.9 PF	
Phase	3-4 W	
Waveform	Pure sine wave	
Voltage	380, 400, 415 Vac ±1%	
Frequency	50/60± 0.2% Hz (battery mode)	
Three phase difference	≤2 degrees	
Waveform distortion	THD ≤2% (100% linear load)	
Static bypass transfer time (ms)	0	
System efficiency	≥95%	
Parallel mode	Advanced no-master-slave parallel technology, N+1 redundancy	
Overload capacity	125% load for 10 minutes, 150% load for 10 seconds	
Battery		
Voltage	480 Vdc (32–40 selectable)	
Charging current	10 A–60 A	
Other		
Maintenance bypass	Yes	
DC cold start function	Yes	
Display	Touchscreen + LED	
Communication function	RS232/RS485, dry contact and SNMP (optional)	
Approvals	CE (EN 62040-2, IEC 62040-1)	
Noise	<75 dB	
Dimensions (mm) W x D x H	1200 × 800 × 1800	
Weight (kg)	1010	

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Model	300BM	400BM	500BM	600BM
Input				
Voltage	380/400/415 Vac			
Voltage range	-40% – +25%			
Input wiring	3Ph+N+PE			
Rated frequency	50/60 Hz			
Frequency range	±5%/±10%			
Power factor	0.99 PF			
THDi	≤3%			
Bypass				
Input voltage	380/400/415 Vac			
Voltage range	-25%~+20%			
Frequency range	±5%/±10%			
Output				
Output voltage	380/400/415 Vac ±1%			
Frequency	50/60±0.1 Hz			
Output	PF 0.9/1.0 (optional)			
THDV	<0.5% (linear load), ≤5% (non-linear load)			
Efficiency	Up to 97%			
Output wiring	3 Ph+N+PE			
Overload	≤130%, 10 min; ≤150%, 1 min			
Dynamic response time	20 ms			
Dynamic response range	≤5%			
Battery				
Voltage	480 Vdc (12V battery from 32–44 selectable)			
Charging current	20–100 A			
Other				
Operating temperature (°C)	-5~40°C			
Storage temperature	-25~55°C			
Storage temperature	-25~55°C			
Noise	<75 dB			
Communication	Dry contact, MODBUS, SNMP (optical)			
Dimensions (mm) W x D x H	1400 x 800 x 1800	1400 x 800 x 1800	1600 x 900 x 1800	1600 x 800 x 1800
Weight (kg)	950	1000	1200	1300

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Regional Office:

Kohler Uninterruptible Power

7 Jurong Pier Road
Singapore 619159

Tel: +65 6302 0702

Fax: +65 6302 0717

Email: salesUPS.sg@kohler.com

www.kohler-ups.sg
