

Kohler EW 6000TX Transformer-based (UPS 10–600kVA)

Technical Specification

KOHLER POWER
uninterruptible



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Kohler EW 6000TX (UPS 10–200 kVA)

Model	10	20	30	40	60	80	100	120	160	200
Input										
Voltage	380/400/415 Vac ±25%									
Rectifier	40–70									
SYNC frequency tracking	50/60 Hz ±10% (± 5% optional)									
Phase	3φ4W+PE									
Output										
Capacity (KVA)	10	20	30	40	60	80	100	120	160	200
Power factor	0.9 (0.8/1.0 optional)									
Phase	3φ4W+PE									
Voltage	L–N: 220/230/240 Vac ± 1%, L–L: 380/400/415 Vac ± 1%									
Frequency	50/60 Hz ± 0.2 (battery mode)									
Waveform	Pure sine wave, THD ≤2% (linear load)									
3-Phases 100% load unbalance voltage stability	≤2%, allow 100% unbalance									
Efficiency	Up to 92%									
Overload	125% load for 10 minutes, 150% load for 1 minute									
Battery										
Voltage	348 Vdc (360 optional)									384 (348/360/372 selectable)
BATT type	External									
Charging current	10–40 A selectable									10–100 A selectable
Other										
Maintenance bypass	Yes									
Communication interface	RS485/MODBUS (dry contacts/SNMP is optional)									RS232/RS485 (dry contacts/SNMP is optional)
Display	Touchscreen + LED									
Alarm	Overload, abnormal AC input, low battery, UPS failure									
Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage									
Noise	<65 dB									<70 dB
Working temperature	0–40°C									
Relative humidity	0–95%, no condensation									
Dimensions (mm) W x D x H	500 × 600 × 1180			500 × 800 × 1600			700 × 800 × 1800			1400 × 1000 × 1850

Kohler EW 6000TX (UPS 300–600 kVA)

Model	300T	400T	500T	600T
Input				
Rated voltage	380/400/415 V (selectable)			
REC voltage range	228–475 Vac			
Bypass voltage range	±20%			
Bypass frequency sync	50/60 Hz ± 5% (±10% optional)			
Battery (VDC)	480 (384 V–504 V, 32–42 pcs 12 V battery selectable)			
Charging mode	Equalised and float charging			
Charging current	20~100A			
PF	≥0.999			
THDi	≤2% (full load)			
Output				
Voltage	380/400/415 Vac±1%			
Frequency	50/60 Hz ± 0.02% (battery mode)			
Load PF	0.9			
THDV (Linear load) %	≤0.5%			
THDV (Non linear load) %	≤2% (RCD load PF=0.8, ≤6%)			
Crest factor	3:1			
Voltage transient range	±5%			
100% load system efficiency	95%			
Power consume without load	4.785 kW (INV); 2.736 kW (ECO)		5.745 kW (INV) 4.34 kW (ECO)	
Frequency sync range	45~55/54~66			
Inverter overload	130% 10 min; 150% 1 min			
Inverter short circuit current-limiting	1150 A	1600 A	1900 A	2300 A
Bypass overload	130% long time; 150% 10min			
Transfer time (AC to DC)	0	0	0	0
ECO/normal mode transfer time	≤10 ms			
Other				
Maintenance bypass	Yes			
Display	Touchscreen + LED			
Communication port	RS232/485, dry contact (SNMP, MODBUS optional)			
DC start function	Optional			
Noise	72 dB		75 dB	
Working temperature	-5~40°C			
Storage temperature	-20~55°C			
Humidity	0~95%			
IP	IP20 (high level option)			
Approvals	EN62040-2:2006			
Dimensions (mm) W x D x H	1600 x 1000 x 1800		2200 x 1000 x 1800	
Weight (kg)	1400	1700	2300	2400



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