

KOHLER®

UNINTERRUPTIBLE
POWER



KOHLER *EW* 6000TX

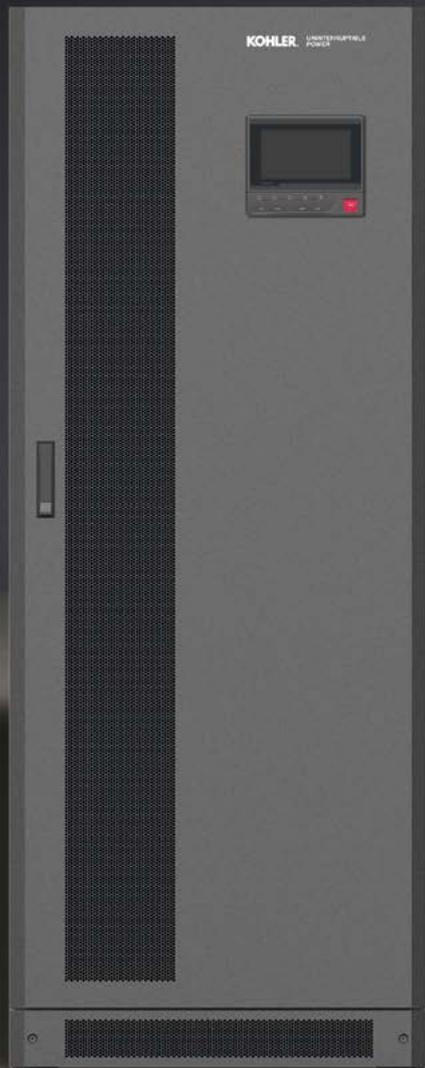
Medium to high power transformer-based uninterruptible power supply

(10-600 kVA)

Clean power, *dependable* resilience.

An advanced, transformer-based medium power three-phase UPS combining innovation and reliability in a compact footprint.

Applications include server rooms, data centres, precision instruments and industrial processes.



100–200 kVA



40–80 kVA



10–30 kVA

KOHLER EW 6000TX 10–160 kVA

- | Transformer-based
- | Small footprint
- | Touch screen control
- | High efficiency (92% VFI mode)
- | Power Factor (PF) 0.9
- | Double-button switch prevents error

Reliable

- | Output isolation transformer to provide high reliability even in harsh industrial environments
- | 100% three-phase unbalance load adapts to complex applications
- | Special dual air duct design for effective cooling of key components, extending service life
- | Dual power supply redundancy
- | Wide input voltage range maximises grid variation capacity and extends battery service life
- | Electromagnetically shielded main PCB board ensures reliable EMC protection

Easy operation

- | 10–30 kVA models have wheels for easy movement
- | Friendly, touch screen interface
- | On/off double-button design
- | Emergency power-off (EPO) function
- | 10,000 record event log to reduce fault analysis and maintenance time
- | Modular power component layout reduces footprint and simplifies maintenance
- | Hot-swappable fan design enables on-line maintenance

Intelligent management

- | Multi-communication interface supports UPS and intelligent load monitoring
- | SNMP output enables local and remote monitoring
- | Battery temperature compensation and self-test functions for improved battery performance and extended service life
- | Intelligent fan control according to load capacity reduces noise and prolongs fan service life

Innovative design

- | Dual DSP control technology provides faster data processing and more precise, reliable protection
- | High output power factor for demanding applications
- | ECO-mode (98% efficiency) reduces cost and heat emission
- | Bus synchronisation control function provides reliable high power for dual bus applications
- | Advanced no-master-slave parallel technology achieves online power expansion and prevents single faults

Resilient protection, *enhanced* power.

An advanced, transformer-based high power three-phase UPS combining innovation and reliability in a compact footprint.

Applications include larger server rooms, data centres, telecommunications, national defence and industrial processes.



KOHLER EW 6000TX 200–600 kVA

- | Transformer-based
- | High overload capacity
- | Touch screen control
- | High efficiency (95% VFI mode)
- | Power Factor (PF) 0.999
- | IGBT-based rectifier technology

Responsible

- | High online (VFI) mode efficiency of >95%
- | High input power factor (up to 0.999) and low input THDi (<2% at full load) reduce grid distortion and running costs
- | Intelligent fan speed control and failure detection function reduces noise and prolongs fan service life
- | Advanced battery management extends service life, reducing costs and waste

Reliable

- | Output transformer provides galvanic isolation from high voltage DC, protecting key components
- | Full isolation from external loads, reducing harmonic disturbances
- | Wide input voltage range maximises grid adaptability and extends battery service life
- | Water, dust, corrosion and EMC shielded circuit boards
- | Dual air duct design for enhanced cooling performance

Easy operation

- | Friendly, touch screen interface to control modes and view data
- | Emergency power-off (EPO) function
- | Separate, on/off double button to avoid errors
- | 10,000 record event log to reduce fault analysis and maintenance time

Innovative design

- | Dual DSP control technology provides faster data processing and more precise, reliable protection
- | High output power factor for demanding applications
- | Load bus sync (LBS) control decreases transfer time and current impact of dual bus system

Options

- | IP upgrade and temperature sensing
- | Lightning protection device C/D level
- | Input / bypass isolation transformer
- | UPS management software
- | Charging temperature compensation

Technical specification

KOHLER EW 6000TX (UPS 10–160 kVA)

Model	FR-UK 3310	FR-UK 3320	FR-UK 3330	FR-UK 3340	FR-UK 3360	FR-UK 3380	FR-UK 33100	FR-UK 33120	FR-UK 33160
Input									
Voltage (Vac)	380/400/415 ± 25%								
Rectifier Frequency (Hz)	40~70								
SYNC frequency tracking (Hz)	50/60 Hz ±10% (± 5% settable)								
Phase	3φ4W+PE								
Output									
Capacity (kVA)	10	20	30	40	60	80	100	120	160
Power factor	0.9								
Phase	3φ4W+PE								
Voltage (Vac)	L-N: 220/230/240 ± 1%, L-L: 380/400/415 ± 1%								
Frequency (Hz)	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								
Overload	125% load for 10 minutes, 150% load for 1 minute								
Battery									
Voltage (Vdc)	348 (360 optional)								
Battery type	External								
Charging current (A)	10~40A selectable								
General									
Maintenance bypass	Yes								
Communication interface	RS485, MODBUS, dry contacts (SNMP is optional)								
Display	Touchscreen + LED								
Alarm	Overload, abnormal AC input, low battery, UPS failure, etc.								
Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage, etc.								
Noise (dB)	<65								
Working temperature (°C)	0~40								
Relative humidity	0~95%, no condensation								
Dimensions (W x D x H) (mm)	500 x 600 x 1180			500 x 800 x 1600			700 x 800 x 1800		
Weight (kg)	230	260	300	400	450	520	600	650	825

Specification is subject to change without prior notice.

If the higher charging current is adjusted, the UPS capacity shall be derated.

Technical specification

KOHLER EW 6000TX (UPS 200–600 kVA)

Model	FR-UK 33200	FR-UK 33250	FR-UK 33300	FR-UK 33400	FR-UK 33500-12P	FR-UK 33600-12P
Input						
Voltage (Vac)	380/400/415 ± 25%					
Rectifier Frequency (Hz)	40~70					
SYNC frequency tracking (Hz)	50/60 Hz ±10% (± 5% settable)					
Phase	3φ4W+PE					
Output						
Capacity (kVA)	200	250	300	400	500	600
Power factor	0.9					
Phase	3φ4W+PE					
Voltage (Vac)	L-N: 220/230/240 ± 1%, L-L: 380/400/415 ± 1%					
Frequency (Hz)	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					
Overload	125% load for 10 minutes, 150% load for 1 minute					
Battery						
Voltage (Vdc)	348 (348/360/372 settable)					
Battery type	External					
Charging current (A)	10~100A settable					
General						
Maintenance bypass	Yes					
Communication interface	RS232, RS485, dry contacts (SNMP is optional)					
Display	Touchscreen + LED					
Alarm	Overload, abnormal AC input, low battery, UPS failure, etc.					
Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage, etc.					
Noise (dB)	<70					
Working temperature (°C)	0~40					
Relative humidity	0~95%, no condensation					
Dimensions (W x D x H) (mm)	1400 x 1000 x 1850		1600 x 1000 x 1850		3000 x 1000 x 1850	
Weight (kg)	1280	1568	1830	2050	4500	

KOHLER UNINTERRUPTIBLE POWER



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