

OTB-EX SERIES



Online UPS Low frequency 6KVA to 20KVA (Single Phase in and Single phase out)

OTB-EX series Online UPS 10KVA-40KVA is a true online double conversion Three phase in and single phase out low-frequency UPS, Adopting the online dual-change topological architecture design, the AC/DC input has a harmonious inhibitor, which eliminates various interference of the grid. IGBT power module and output isolation transformer, so that the output of UPS is a pure sine power with a steady frequency voltage, UPS has the characteristics of strong load capacity, good load compatibility, municipal electric input voltage, wide frequency range, no switching time output, excellent generator, and compatible matching.

Features

- The double-conversion online design makes the output of the UPS a pure sinewave power supply with frequency tracking, phase-locked voltage regulation, noise filtering, low distortion, and no interface from the power grid providing more comprehensive and perfect protection for user equipment.
- DPS (Digital signal Processors) technology
- Output zero conversion time to meet the high standard requirements of precision equipment for power supply.
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- Wide input voltage ranges up to 165 ~ 275 VAC, avoid frequency switching to battery mode, which adapts to areas with harsh environments.
- Wide input frequency range, ensure all types of fuel generators connected work stably. High overload capability (up to 150%)
- Some units can be directly connected in parallel, increasing the scalability of the system. The parallel system can share a group of backup batteries.
- Cold start and mains start function.
- Superior protections (surge, short-circuit, overvoltage, under voltage, overcharge, reverse battery protection, etc.)
- Advanced communications: RS232 port (Standard), USB, SNMP, dry contacts, and RS485 (Optional)
- Other options (input isolation transformer, bypass isolation transformer, and harmonic suppressor)

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OSME

Applications

Data centers:

ensure the functionality of environments and prevent losses caused by net failures.

Financial services:

Maintains online operability of financial transactions and operations.

Telecommunications:

Prevents supply failures that can suspend communication between subscribers.

IT-Networks:

Prevent costs due to service interruptions or loss of information.

Industrial processes:

protect productivity in electrically complicated environments.

Infrastructure:

Safeguards the instruments/equipment and ensures the proper management of the systems.

Technical Specifications

MODEL		OTB-EX10	OTB-EX15	OTB-EX20	OTB-EX30	OTB-EX40
RATED POWER		10KVA / 8KW	15KVA / 12KW	20KVA / 16KW	30KVA / 24KW	40KVA / 32KW
TECHNOLOGY		On-line double conversion, DSP control				
INPUT	Rated voltage	Three-phase 3 x 380 V / 3 x 400 V / 3 x 415 V (3Ph+N+PE)				
	Voltage range	+15% / -20% (@3 x 400V)				
	Rated frequency	50 / 60 Hz (45-65Hz)				
	Power factor	> 0.97				
OUTPUT	Rated voltage	Single-phase Three wire (1φ+N+PE) 220 / 230 / 240VAC				
	Voltage accuracy	+ 0.5%				
	Power factor	0.8				
	THDv (linear load)	<1.5%				
	Frequency	50 / 60 Hz (+ 0.1% in battery mode)				
	On-line performance	90%				
	Waveform	Sinusoidal				
	Crest factor	3:1				
	Overload	>125% for 1 min. / >150% for 200 ms				
BATTERY	Battery type	Lead acid, sealed, maintenance free				
	Rated voltage	192 VDC (12V x 16 no's)		240 VDC (12V x 20 no's)		
	Charging voltage	216 VDC		270 VDC		
SYSTEM	Transfer time	0 ms (line mode → battery mode)				
	Communication interface	RS232 port (Standard), USB, SNMP, dry contacts, and RS485 (Optional)				
GENERAL	Operating temperature	0°C ~ +40°C				
	Relative humidity	Up to 95%, non-condensing				
	Maximum operating altitude	< 1500 m				
	Acoustic noise at 1 meter	< 55 dB				
STANDARD	Safety	EN-IEC 62040-1				
	Electromagnetic compatibility	EN-62040-2				
	Operation	VFI-SS-11 (EN-62040-3)				
	Corporate certification	ISO 9001, ISO 14001, ISO 45001				
PHYSICAL	Dimensions (L x W x H) mm	305 x 585 x 864			430 x 830 x 1100	
	Weight (kg)	120	145	155	255	280

*information subject to change without prior notice

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