

# UMTWR IND Series 3:1 ▶▶

8 ~ 40kVA

3:1 phase PF: 0.8



## High reliability design

- Double Conversion on-line design, which makes the output a pure sine wave source with tracking frequency, phase-lock and voltage regulation, noise suppression, and without power fluctuation interference, providing the load with more comprehensive protection
- Zero transfer time of output, satisfies high standard power requirements of precision equipment
- Modular design and dual-CPU control, high reliability and stability ensure the safe operation and high efficiency

## Optimization of high-performance battery

- Adapt intelligent battery management (ABM) technology, thus it extends battery life and reduces battery maintenance times
- Advanced CC (Constant current)/CV (Constant voltage) auto-conversion charging technology maximizes the activation of cells, thus it saves the charging time and extending the battery life

## High reliability during operation

- Pure online static bypass technology, provides a strong protection against overload and fault
- Built-in manual maintenance bypass, further improves the reliability of continuous operation

## Wide input range

- The range of AC input voltage is  $380V \pm 20\%$ , thereby it reduces the battery using frequency and greatly extending the battery life
- Wide input frequency range, ensure all types of fuel generators connected work stable

## Comprehensive and reliable protection

- Self-diagnosis function before start-up, avoid the risks that maybe lead to the failure
- The multi-protections such as overload, short-circuit, over-temperature, battery under voltage, battery over-charge and so on greatly ensure the system stability and reliability

### Strong Redundancy/parallel ability

- Some units can be directly connected in parallel, increasing the scalability of the system
- The parallel system can share a group of backup battery
- Non-fixed Master-Slave relationship: Among several UPS in parallel, the unit startup first is Master UPS, the others are Slave UPS. The master and slave can be exchanged. If the inverter of one UPS fails, the UPS will automatically cut off the output, then the load will be powered by remained UPS

### User-friendly network management

- Chinese and English language selectable via LCD panel
- RS232 communication interface
- RS485 communication interface (Support MODBUS protocol)
- SNMP card (Optional)
- Events log can be record in the LCD panel
- Dry contact signal port are available

### Technical Specifications:

MODEL	UM8000TWRIND	UM10000TWRIND	UM15000TWRIND	UM20000TWRIND	UM30000TWRIND	UM40000TWRIND
Capacity	8kVA/6.4kW	10kVA/8kW	15kVA/12kW	20kVA/16kW	30kVA/24kW	40kVA/32kW
<b>INPUT</b>						
Operating voltage range	380/400Vac (±20%), (3Ph+N+PE)					
Operating frequency range	50/60Hz (±5%)					
Power factor	≥0.97 *					
<b>OUTPUT</b>						
Output voltage	220Vac (±1%)					
Output frequency	50/60Hz (±0.5%)					
Crest factor	3:1 (Max)					
Efficiency	86%			88%		
Harmonic distortion (THDv)	≤2% (Linear load)					
<b>BATTERY</b>						
Battery voltage	192Vdc			240Vdc		
<b>SYSTEM FEATURES</b>						
Transfer time	0 ms (Line mode → Battery mode)					
Overload	110% ≤Load ≤150%/1min; > 150%/200ms, to Bypass					
LED display	Low battery voltage, Mains status, Inverter, Bypass, UPS failure, Overload					
LCD display	I/O voltage, Frequency, Battery voltage, Load percentage, Internal temperature					
Communication interface	RS232, RS485, EPO, Dry contact, SNMP (Optional)					
<b>ENVIRONMENTAL</b>						
Operating temperature	0 ~ 40°C					
Storage temperature	-25 ~ 55°C					
Humidity range	0 ~ 95% (Non-condensing)					
Altitude	<1500m					
Noise level	<60dB			<65dB		
<b>PHYSICAL</b>						
Dimension W × D × H (mm)	305 × 585 × 864			350 × 650 × 1050		
Net weight (kg)	110	115	130	145	205	255
Shipping weight (kg)	120	125	140	155	220	270
<b>STANDARDS</b>						
Safety	IEC/EN 62040-1; IEC 62477-1					
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)					
Performance	IEC/EN 62040-3					

\* With optional filter

1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design