

# OTOT Transformer-less Online Tower UPS, PF1, 3:3



Segment LCD



TFT colourful LCD



7 inch colourful LCD



Battery cabinet  
(Optional)



Optimized battery configuration  
7Ah/9Ah (12V)

## Features

- Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage  $\geq 305$ Vac
- High input power factor, it is up to 0.99
- 3-level inverter topology, the efficiency can be up to 95.5%
- Support parallel expanded operation: maximum is 6 units
- Support sharing batteries for the UPS in parallel
- Integrated solution, no additional battery cabinet is required, saving construction costs
- Maximum 6 groups of internal batteries, selectable according to autonomy time's requirement
- Output power factor is 1.0, UPS can supply power to 100% unbalanced load
- High adaptability for load, it can connect full inductive load or capacitive load
- Power Walk in function, reduces the start current impact to system, and reduce the capacity of generator
- LBS function can realize 2 independent UPSs work in synchronization, and enhance the reliability of the system
- Support USB, RS485, RS232, SNMP and dry contact card



ON LINE



TOWER



DATA CENTRE



E-MEDICAL



INDUSTRY



TRANSPORT



EMERGENCY

# OTOT Transformer-less Online Tower UPS, PF1, 3:3

MODEL	OTOT50H	OTOT60H	OTOT80H
Capacity (VA/W)	50k	60k	80k
<b>INPUT</b>			
Nominal Voltage (Vac)	380/400/415 (3Ph+N+PE)		
Operating Voltage Range (Vac)	138~305 for 40% load; 305~485 for 100% load		
Power Factor	≥0.99		
Harmonic Distortion (THDi)	≤3% Linear load		
Bypass Voltage Range (Vac)	Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -20%, -30%)		
Bypass Frequency Range (Hz)	50/60±10%		
<b>OUTPUT</b>			
Nominal Voltage (Vac)	380/400/415 (3Ph+N+PE)		
Voltage Regulation	±1%		
Output Frequency (Hz)	Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1); (50/60±0.2%)		
Crest Factor	3:1		
Harmonic Distortion (THDv)	≤2% Linear load; ≤4% with non linear load		
Overload	Inverter mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% immediately shut down inverter	
	Bypass mode	30°C: 135% for long term; 40°C: 125% for long term; >1000%, 100ms	
<b>EFFICIENCY</b>			
AC Mode	Up to 95.5%		
ECO Mode	Up to 99%		
<b>BATTERY</b>			
Battery Type	VRLA		
Battery Voltage (Vdc)	±240 (6×40pcs 9Ah/12V)		
Charge Current(Max.)	20		40
<b>ENVIRONMENTAL</b>			
Operating Temperature (°C)	0~40		
Storage Temperature (°C)	-25~55 (No battery)		
Humidity Range	0~95% (Non condensing)		
Altitude (m)	<1000, derating required when >1000		
Noise Level (dB)	<58	<60	<62
<b>PHYSICAL</b>			
Dimension WxDxH (mm)	600×1000×2000		
Weight (kg)	740	950	1000
<b>STANDARDS</b>			
Safety	IEC/EN 62040-1, IEC/EN 62477-1		
EMC	IEC/EN 62040-2 (IEC 61000-2-2, 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)		

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