

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



Features

- Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage ≥ 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
- Power Walk in function, reduces the start current impact to system, and reduce the capacity of generator
- 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
- Compatible with VRLA or lithium battery
- 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

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MODEL	OTOT50H	OTOT60H	OTOT80H	OTOT100H	OTOT120H	OTOT150H	OTOT160H	OTOT200H	
Capacity (VA/W)	50k	60k	80k	100k	120k	150k	160k	200k	
INPUT									
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 -10%, -15%, -20%, -30%)								
Bypass Frequency Range (Hz)	50/60±10%								
OUTPUT									
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); Bat. mode: (50/60±0.2%)								
Crest Factor	3:1								
Harmonic Distortion (THDv)	≤2% with linear load; ≤4% with non linear load								
Overload	Inverter Mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter						≤110% 60min, ≤125% 1min, >125% 1.2s shut down inverter	
	Bypass Mode	30°C: 135% for long term; 40°C: 125% for long term; >1000%, 100ms							
EFFICIENCY									
AC Mode	Up to 95.5%								
ECO Mode	Up to 99%								
BATTERY									
Battery Type	VRLA/Li-ion								
Battery Voltage (Vdc)	360~600								
Charging Current(Max.)(A)	20		40			60			
ENVIRONMENTAL									
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)	<55	<58	<60	<62	<63	<64	<66		
PHYSICAL									
Dimension WxDxH (mm)	250×828×868			442×850×1200					
Weight (kg)	80	83	144	147	152	190	200	220	230
STANDARDS									
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