

# TH RT Series

## 6-10 kVA Rack UPS

The TH RT series 6-10kVA UPS is a Rack/Tower convertible UPS solutions which integrates true double-conversion design, DSP technology to provide clean high-level quality power as well as better voltage conditions to different application. What's more, with N+X parallel redundancy, it can achieve higher availability and MTBF (mean time between failure) to fully protect mission-critical devices.



### Key features and benefits

- True double-conversion
- Can be converted to rack-mounted or floor standing
- LCD panel can be rotated accordingly
- Great reliability and performance
- Advanced technology DSP, IGBT components
- Compatible with 3 phase and single phase input
- Intelligent communications—RS-232, SNMP card (optional), relay card (optional)
- N + X parallel redundancy
- Adjustable charging via LCD
- ECO mode for energy saving
- Cold start

MODEL	TH RT60L	TH RT10L
Capacity (VA/Watts)	6K / 5.4K	10K / 9K
<b>INPUT</b>		
Nominal Voltage	380/400/415Vac(3Ph+N+PE) or 220/230/240Vac(L+N+PE)	
Operating Voltage range	208~478Vac or 120VAC-276Vac	
Operating Frequency range	50Hz: 45~55Hz, 60Hz: 54~66Hz	
Power Factor	≥0.99	
Bypass Voltage range	Max. voltage: 220V: +25%(Optional +10%,+15%,+20% ) 230V: +20%(Optional +10%,+15%) 240V: +15%(Optional +10% ) Min. voltage: -45% (Optional -20%,-30%)	
Harmonic Distortion	≤5%(100% non-linear load)	
<b>OUTPUT</b>		
Output Voltage	220/230/240Vac	
Power Factor	0.9	
Voltage Regulation	±1%	
Frequency	Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)
	Bat.Mode	(50/60±0.1)Hz
Crest Factor	3:01	
Harmonic Distortion	≤2% with linear load	
	≤5% with non-linear load	
Waveform	Pure Sinewave	
Transfer Time	Utility to Battery : 0ms; Utility to Bypass: 0ms	
Efficiency	Up to 94%	
<b>BATTERY</b>		
Battery Voltage	Selectable Voltage: ±96/108/120Vdc	
Typical Recharge Time	6-8 hours (To 90% capacity)	
Charging Current	Maximum current 10A	
<b>PROTECTION</b>		
Overload	Line Mode	Load≤125%: last 5min;≤150%: last 1min;> 150% 200ms turn to bypass mode
	Bypass Mode	40A(Input breaker)                      63A(Input breaker)
Short Circuit	Hold Whole System	
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately	
Battery Low	Alarm and Switch off	
<b>INDICATORS</b>		
Audible & Visual Alarms	Line Failure, Battery Low, Overload, System Fault	
Status LED & LCD Display	Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Fail, Overload & UPS Fault	
Parameters On LCD Panel	Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Backup Time	
Communication Interface	RS-232,USB,Parallel card, SNMP card(Optional), Relay card (Optional)	
<b>ENVIRONMENT</b>		
Operating Temperature	0~40C	
Storage Temperature	-25~55C	
Humidity Range	0~95% (Non-condensing)	
Altitude	< 1500m	
Noise Level	<55dB	
<b>PHYSICAL</b>		
Dimension W×H×D (mm)	443×131×580(3U)	
Net Weight (kg)	30	31
<b>STANDARDS</b>		
Noise Suppression	Complies with EN62040-2	
Safety	IEC/EN62040-1,IEC/EN60950-1	
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8	

BATTERY PACKS AVAILABLE