

TH1-1 Pro Series

6-10 kVA UPS

The TH1-1 Pro 6-10K online tower UPS is a single-in-single-out high frequency online UPS. The UPS can solve most of the power supply problems, such as blackout, over-voltage, under-voltage, voltage sudden drop, oscillating of decreasing extent, high voltage pulse, voltage fluctuation, surge, inrush current, harmonic distortion (THD), noise interference, frequency fluctuation, etc.

This UPS can be applied to different applications from computer device, automatic equipment, communication system to industry equipment.



Key features and benefits

- True double-conversion
- Great reliability and performance
- Advanced technology DSP, IGBT components
- 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

Technical Specification

MODEL	TH1-1 Pro6	TH1-1 Pro6L	TH1-1 Pro10	TH1-1 Pro10L
Capacity (VA/Watts)	6K / 5.4K		10K / 9K	
INPUT				
Nominal Voltage	220/230/240Vac(L+N+PE)			
Operating Voltage Range	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%)			
ECO Range	Min. voltage: -45% (Optional -20%,-30%)			
Harmonic Distortion (THDi)	Same as bypass			
Harmonic Distortion (THDi)	≤5%(100% non-linear load)			
OUTPUT				
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 (THDv)	≤2% with linear load			
	≤5% with non-linear load			
Waveform	Pure Sinewave			
Transfer Time	Utility to Battery : 0ms; Utility to Bypass: 0ms			
EFFICIENCY				
Efficiency	Up to 94%			
BATTERY				
Battery Voltage	Selectable Voltage: ±96/108/120Vdc			
Typical Recharge Time	6-8 hours (To 90% capacity)			
Charging Current	Maximum current 10A			
PROTECTION				
Overload	Line Mode	Load≤125%: last 5min;≤150%: last 1min;> 150% 200ms turn to bypass mode		
	Bypass Mode	40A(Input breaker)	60A(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			
INDICATORS				
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 The 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(Optional), SNMP card(Optional), Relay card (Optional)			
ENVIRONMENT				
Operating Temperature	0~40C			
Storage Temperature	-25~55C			
Humidity Range	0~95% (Non-condensing)			
Altitude	< 1500m			
Noise Level	<55dB			
PHYSICAL				
Dimension W×D×H (mm)	250×502×616	220×481×438	250×502×616	220×481×438
Net Weight (kg)	62	18	64	20
STANDARDS				
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				

