

THS Series

Modular 10-150 kVA UPS

The THS series modular UPS is a hot-swappable design. With a colour touch screen the modular UPS features high efficiency (95.8%), high power density, easy scaling, scaling on demand, Parallel redundancy function and occupies only a small amount of floor area to provide safe and reliable, power to sensitive loads.

The series' N+X module and built-in system redundancy maintain a steady, reliable source of energy. It can provide the highest level of power protection and has been widely used in various industries such as IT rooms, data centers, banking, healthcare, insurance, and telecommunications.



Key features and benefits

- Modules design includes power module, bypass module and monitoring module
- Flexible power modules 10/15/20/25/30kVA (2U)
- Great reliability and performance
- Advanced technology DSP, IGBT components
- Intelligent communications—RS-232, SNMP card (optional), relay card (optional)
- Parallel redundancy configurations
- ECO mode for energy saving

Module Model		THS Series		
Cabinet Model		THS3300E-20	THS3300E-40	HTHS300E-60
Cabinet capacity (VA)		10k~20k	10k~40k	10k~60k
Module capacity (VA)		10k		
Max. Number		2	4	6
Module Model		THS3300E-RM-15		
Cabinet Model		THS3300E-30	THS3300E-60	THS3300E-90
Cabinet capacity (VA)		15k~30k	15k~60k	15k~90k
Module capacity (VA)		15k		
Max. Number		2	4	6
Module Model		THS3300E-RM-20		
Cabinet Model		THS3300E-40	THS3300E-80	THS3300E-120
Cabinet capacity (VA)		20k~40k	20k~80k	20k~120k
Module capacity (VA)		20k		
Max. Number		2	4	6
Module Model		THS3300E-RM-25		
Cabinet Model		THS3300E-50	THS3300E-100	THS3300E-150
Cabinet capacity (VA)		25k~50k	25k~100k	25k~150k
Module capacity (VA)		25k		
Max. Number		2	4	6
Module Model		THS3300E-RM-30		
Cabinet Model		THS3300E-60	THS3300E-120	THS3300E-150
Cabinet capacity (VA)		30k~60k	30k~120k	30k~150k
Module capacity (VA)		30k		
Max. Number		2	4	5+1
INPUT				
Nominal voltage		380/400/415Vac, (3Ph+N+PE)		
Operating voltage range		138~305Vac for 40% Load; 305~485Vac for 100% Load;		
Operating frequency range		40Hz-70Hz		
Power factor		≥0.99		
Harmonic distortion (THDi)		≤3% (100% linear load)		
Bypass voltage range		Max. voltage: 220V: +25% (optional +10%, +15%, +20%); 230V: +20% (optional +10%, +15%); 240V: +15% (optional +10%) Min. voltage: -45% (optional -10%, -15%, -20%, -30%)		
Bypass frequency range		Frequency protection range: ±10%		
Power Walk In		Support		
Generator input		Support		
OUTPUT				
Rated voltage		380/400/415Vac, (3Ph+N+PE)		
Power factor		1		
Voltage regulation		±1%		
Output frequency	Line Mode	Synchronize with input, when the input frequency > ±10% (±1%/±2%/±3%/±4%/±5% optional), output 50/60 (±0.1Hz)		
	Bat. Mode	(50/60±0.1%)Hz		
Crest factor		3:01		
Harmonic distortion (THDv)		≤1% with linear load; ≤3% with nonlinear load		
Efficiency		up to 95.8%		

BATTERY

Battery voltage	Optional Voltage: ±180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional); 360Vdc~600Vdc (30~50 pcs, 36 pcs default, 36~50 pcs no power derating; 32~34 pcs output power factor 0.9; 30 pcs output power factor 0.8)
Power module charge current	18A (Max.)

SYSTEM FEATURES

Transfer time	Utility to Battery : 0ms; Utility to bypass: 0ms
Overload	Line Mode ≤110%, 60min; ≤125%, 10min; ≤150%, 1min; to bypass. > 150% Shut down Immediately.
	Bypass Mode 135% overload for long term; >1000% overload for 100 ms
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately
Low battery voltage	Alarm and Switch off
Self-diagnostics	Upon Power On and Software Control
Backfeed	Support
EPO	Shut down UPS immediately (turn to bypass optional)
Battery	Advanced Battery Management
Noise suppression	Complies with EN62040-3
Audible & Visual alarms	Line Failure, Battery Low, Overload, System Fault
Status LED & LCD display	Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault
Reading on the LCD display	Input, Output, Battery, Command, Setting, Maintenance
Communication interface	RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (optional), SNMP card(optional), Battery temperature sensor (optional)

ENVIRONMENTAL

Operating temperature	0℃~40℃
Storage temperature	-25℃~55℃
Humidity range	0~95% (non condensing)
Altitude	<1500m, derating required when >1500m
Noise level(from 1M distance)	<58dB <60dB <62dB

PHYSICAL

Dimension	W×D×H (mm)	UPS cabinet	485×850×353(8U)	485×850×575(13U)	485×850×752(17U)
		Power module	440×620×86(2U)		
Net weight (kg)		UPS cabinet	69	79	98
		Power module	10kVA: 19; 15~30kVA: 21		

STANDARDS

Safety	IEC/EN62040-1, IEC/EN62477-1
EMC	IEC/EN62040-2 (IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-7)

Specifications are subject to change without prior notice.

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