



**Thor**  
15-900 kVA



# THOR

## THOR 15-900 kVA

High-performance three-phase modular UPS for absolute continuity in all critical applications

With a fully hot swappable, fully scalable and highly efficient design, with 15, 25 and 75 kVA / kW modules, they protect any type of critical load, guaranteeing the highest levels of energy protection, availability, redundancy and economy

### Applications

- Data centers – from micro to large
- Network operations centers (NOC)
- Security operations centers
- Telecommunications systems
- Video broadcasting and transmission infrastructures
- Industrial automation control systems
- Distance learning infrastructures
- Healthcare facilities

### Energy Saver

#### Greater efficiency and lower total cost of ownership (TCO)

The “Energy Saver” function drastically reduces the facility energy and cooling cost and ensures long component life by making the modules work automatically in rotation, balancing wear and increasing their useful life and efficiency



TH COMBO60



# THOR

## Highlights

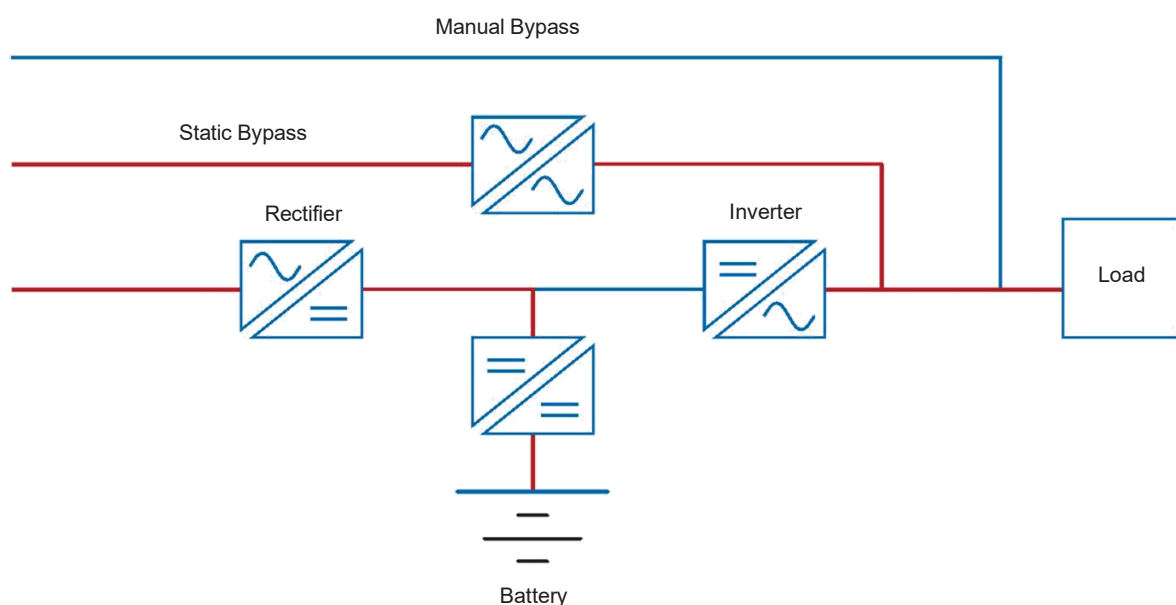
- With the high-density module design with hot-swappable technology for power and bypass modules, load continuity and protection are always guaranteed.
- Power factor of 1.0 (kW = kVA) maximum active power available at any time
- Up to 4 units can be connected in parallel for power and redundancy, up to a maximum power of 3.6 MW
- Designed to minimize the impact on generators and avoid the need to oversize them
- Maximum versatility of installation and expansion
- Dual input and internal manual bypass
- Centralized bypass for easier installation, better balance and less risk of overloading
- Variable configuration of battery banks for maximum installation flexibility
- Minimum charge level of batteries set according to the discharge current, so that they can be used optimally, maximizing their useful life
- Compatible with lithium-ion batteries and other technologies
- Long-lasting, high-quality capacitors (up to 10 years under normal operating conditions)
- Starting without mains power (cold start)
- RS485 ModBus and USB ports, programmable dry contacts and slots for additional communication cards
- Color LCD touchscreen for a user-friendly interface (14 languages selectable)
- Backup of information, settings and log files to removable SD card

## Main options

- Input, output and bypass circuit breakers
- SNMP/Web communication card
- Isolation
- Extra battery charger for more autonomy

## ECO Smart mode – greater energy savings and maximum availability

In ECO Smart (iECO) mode, the bypass and inverter work together to supply combined energy, achieving greater efficiency (up to 99.3 per cent) and maximum energy savings, guaranteeing zero transfer time in the event of a power failure



TECHNICAL DATA SHEET FOR POWER MODULES

MODEL		THOR 15-900									
POWER	kVA	15			25			75			
	kW	15			25			75			
INPUT	Nominal voltage	400 Vac three-phase + neutral									
	Voltage tolerance	±20% at 100% load / -40% ~ +20% at 50% load									
	Frequency	40 – 70 Hz									
	Power factor	≥0.99									
	Current Distortion (THDi)	<3%									
OUTPUT	Nominal voltage	380 / 400 / 415 Vac three-phase + neutral									
	Voltage stability	±1%									
	Frequency	50 / 60 Hz									
	Frequency setting	±0.01%									
	Power factor	1									
	Crest factor	3:1									
	Voltage distortion	≤2% with linear load / ≤4% with linear load									
	Permissible overload	110% up to 60 minutes / 125% up to 10 minutes / 150% up to 1 minute									
BATTERY	Battery cabinet	Modular	Classic								
	Battery bank architecture	Modular Up to 4 seats	Separate cupboard								
	Number of batteries per bank (12V)	40	32 – 44 configurable				32 – 44 configurable				
	Max. load current	3 A per module			5 A per module			15 A per module			
EFFICIENCY	VFI mode	Up to 95.3%			Up to 95.6%			Up to 96%			
	ECO mode	99.3%									
	Battery mode	Up to 95.2%			Up to 95.5%			Up to 95.7%			
BYPASS	Nominal voltage	380 / 400 / 415 Vac three-phase + neutral									
	Voltage tolerance *	-40% a +20% (selectable)									
	Frequency	50 / 60 Hz									
	Frequency tolerance	50 / 60 Hz ±4%						50 / 60 Hz ±6%			
GENERAL	Cabinet design	TH COMBO60	TH R30	TH R60	TH R120	TH R150	TH R250	TH R450	TH R600	TH R900	
	Module power (kVA)	15			25			75			
	Power modules that can be installed	Up to 4	Up to 2	Up to 4	Up to 4	Up to 6	Up to 10	Up to 6	Up to 8	Up to 12	
	Parallel connection	Up to 4									
	Dimensions (WxDxH) mm	600x1100x2000	442x800x662	442x800x840	442x800x1195	600x1000x1600	600x1000x2000	900x1000x2000	1200x1000x2000	800x1000x2000	
	Weight (Kg) **	444	120	164	263	284	410	650	800	1200	
	Degree of protection	IP20									
CONNECTIVITY	User interface	7" color LCD touchscreen									
	Built-in communication ports	USB, RS232, EPO, RS485 ModBus, Dry relay contacts (4 IN/8 OUT), 1 additional slot for optional cards				USB, EPO, Backfeed protection, RS485-ModBus, RS232, Dry Contacts (4 IN/8 OUT), 1 additional slot for optional cards					
	Optional accessories	SNMP card, Battery temperature sensor									
ENVIRONMENTAL PARAMETERS	Operating temperature ***	0 – 40°C									
	Altitude	<1000 m without power reduction, >1000 m with 1% power reduction every 100 m									
	Relative humidity	0 – 95% (no condensation)									
	Audible noise at 1 m	<70 dBA									
REGULATIONS	Standards	IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3									
	Marking	CE, UKCA									

\* Subject to conditions \*\* Includes empty battery modules for Thor Combo \*\*\* To be checked according to battery parameters



**Three-phase UPS**  
**High-performance**  
**Absolute continuity**  
**For critical applications**



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