

TITAN CORE MODULAR SERIES

10–150KVA MODULAR ONLINE UPS | 10–30KVA HOT-SWAPPABLE POWER MODULES

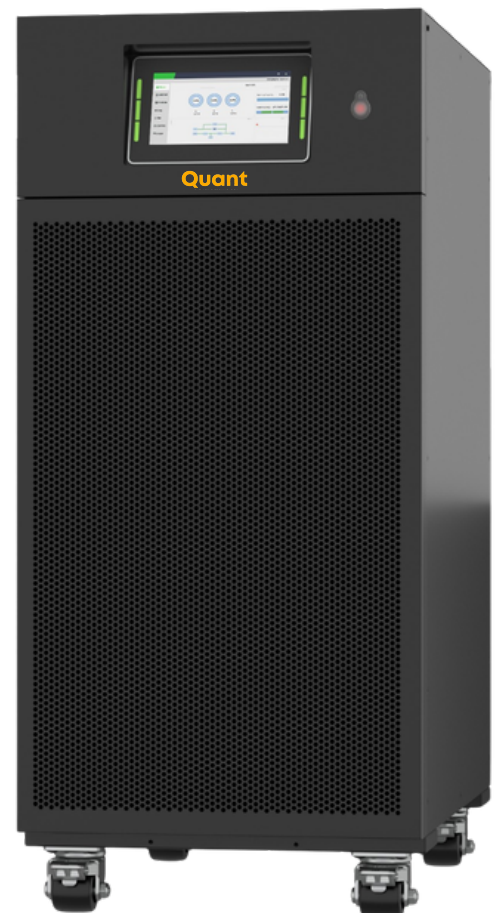


PRODUCT OVERVIEW

TITAN CORE MODULAR Series is a compact, high-density modular online double-conversion UPS designed for scalable, high-availability power protection from 10kVA up to 150kVA. With flexible system configuration (3P/3P, 3P/1P, 1P/1P) and hot-swappable 10–30kVA power modules, TITAN CORE enables fast capacity growth, simplified service, and excellent environmental adaptability for modern critical loads.

APPLICATIONS

- Government
- Finance
- IT
- Education
- Transportation
- Broadcasting
- Medical
- Energy and other mission-critical environments



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KEY FEATURES

- **True Online Double Conversion (VFI)**
Continuous regeneration of clean, stable power for sensitive equipment.
- **Power Range 10–150kVA**
Modular scalability to match load growth without over-investment.
- **Flexible Topology**
Supports 3P/3P, 3P/1P, and 1P/1P system configurations.
- **7” Touch LCD + IoT Functions**
Clear system status, alarms, logs, and intelligent monitoring interface.
- **Extreme Power Density**
Up to 30kW in 2U, optimized for space-constrained sites.
- **19” Rack Mount or Stand-Alone**
Direct 19” installation (no disassembly) or tower deployment.
- **High Reliability & Environmental Adaptability**
Component-level protection design for harsh utility conditions.
- **Supercharging Support**
Compatible with high-capacity battery solutions (including lithium options, project-dependent).

SYSTEM ARCHITECTURE (MODULAR CONCEPT)

TITAN CORE uses hot-swappable power modules to build total capacity and redundancy. Expand power by adding modules; replace modules quickly to reduce downtime and improve MTTR.

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TECHNICAL SPECIFICATIONS

Module		TCM10E	TCM20E	TCM25E	TCM30E
Module rated power		10kVA/10kW	20kVA/20kW	25kVA/25kW	30kVA/30kW
Adaptation cabinet		TCM20/10E TCM40/10E TCM60/10E	TCM40/20E TCM80/20E TCM120/20E	TCM50/25E TCM100/25E TCM150/25E	TCM120/30E TCM150/30E(5+1) TCM 180/30E TCM300/30E
Cabinet rated power		20kVA/20kW 40kVA/40kW 60kVA/60kW	40kVA/40kW 80kVA/80kW 120kVA/120kW	50kVA/50kW 100kVA/100kW 150kVA/150kW	120kVA/120kW 150kVA/150kW 180kVA/180kW 300kVA/300kW
Main input	Input	3P+N+PE			
	Rate Voltage	380/400/415VAC (L-L)			
	Input PF	>0.99			
	Current distortion	THDi<2% （100% Linear load）			
	Voltage range	304～478VAC(L-L) Full load； 304～228VAC (L-L) Power derate from 100% to 50%			324～478VAC(L-L) Full load； 324～228VAC (L-L) Power derate from 100% to 50%
	Freq range	40～70Hz			
Battery	Rate Voltage	±120VDC	±240VDC		
	Charging capacity(max)	50%*Pout			
Bypass	Rate Voltage	380/400/415VAC(L-L)			
	Voltage range	Range: -40%- +25% , Settable, default -20%～+15%；			
	Freq range	Settable, ±1Hz, ±3Hz, ±5Hz)			
	Overload	110%, long time operation 110%<load<125%, 10 mins 125%<load<150%, 1 min >150%,1 second			

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MODEL		TCM10E	TCM20E	TCM25E	TCM30E
Inverter	Rate Voltage	380/400/415VAC (L-L)			
	Rate frequency	50/60Hz			
	Output PF	1			
	Voltage accuracy	±1.0%			
	Output THDu	<1% (linear load) ,<5% (non-linear load according to IEC 62040-3)			
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms			
	Frequency accuracy	0.10%			
	Synchronize window	Settable, ±0.5Hz-±5Hz, default ±3Hz			
	Slew rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S			
	Crest factor	3:1			
	Phase accuracy	120°±0.5°			
Certifications		CE			
Country of Origin		Malaysia			
Warranty		2 Years			

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TECHNICAL SPECIFICATIONS

MODEL		TCM10E	TCM20E	TCM25E	TCM30E
System	Efficiency-normal mode	Up to 96.5%			
	Display	LED + touch LCD			
	Certification- Safety	IEC62040-1, IEC60950-1			
	Certification- EMS	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)			
	IP degree	IP20			
	Noise (1 meter)	68dB @ 100% load, 65dB @ 45% load			
	Operation temperature	0-40°C			
	Humidity	0-95%(non condensing)			
	Altitude	<1000m, 1000~2000m, power derates 1% every 100m			
	Configuration	USB, RS232, RS485, Dry contact, Cold start, Air filter			
	Optional	SNMP card,AS400 card,Parallel kit, SPD, Top air outlet			
Three-in/One-out or One-in/One-out (Optional)		10kVA/10kW	20kVA/20kW	20kVA/20kW (derate)	20kVA/20kW (derate)
Mechanical parameters	dimention (W*D*H)mm	400*495*86			
	Net Weight (kg)	12.65	13.85	13.95	13.95

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Cabinet		2 slots Cabinet : TCM20/10E TCM40/20E TCM50/25E	4 slots Cabinet (10kVA power module) : TCM40/10E	4 slots Cabinet : TCM80/20E TCM100/25E TCM120/30E	6 slots Cabinet : TCM60/10E TCM120/20E TCM150/25E TCM150/30E (5+1)
Mechanical parameters	Body dimention (W*D*H)mm	442*711*307 (7U)	442*710*485 (11U)	442*661*705 (16U)	442*661*906 (20U)
	MAX dimention (W*D*H)mm	442*751*397	442*751*575	442*841*797	442*841*976
	Net Weight without module (kg)	39	52	64	88

ORDERING INFORMATION

Model	Description
TCM10E	TCM20/10E, TCM40/10E, TCM60/10E — 10kVA modular power module platform Systems
TCM20E	TCM40/20E, TCM80/20E, TCM120/20E — 20kVA modular power module platform Systems
TCM25E	TCM50/25E, TCM100/25E, TCM150/25E — 25kVA modular power module platform Systems
TCM30E S	TCM120/30E, TCM150/30E (5+1)— 30kVA modular power module platform Systems

