

TAURUS

CUTTING EDGE TECHNOLOGY FOR HIGH PERFORMANCE 3PHASE UPS

11kVA ~ 80kVA

The Taurus UPS is a three phase standalone transformerless UPS designed for data centers and critical three-phase load applications. Featuring rated output power factor 1.0, delivering maximum power availability without sacrificing the space and providing continuous power protection seamlessly in multiple applications and infrastructure.



PERFECT FOR:



Small datacenter



Networking



Healthcare



Industry



Lift

FEATURES



- True Online Double Conversion with DSP Control
- Utilizing 3-level IGBT topology achieves high power density performance while minimizing the footprint of the UPS System.
- High Efficiency at low load conditions, efficiency is above 90% from 25% load complying to the CEMEP Efficiency % graph.
- Built-in temperature controlled battery charger to extend battery service life and optimizing recharge time.
- THDi <3% for a minimized grid impact
- Operates leading and lagging loads without derating
- High overload capability up to 1 minute @ 150%
- Generator compatibility with ramp up configurable in power and time delay with wide input frequency range
- Cold start function included for optimum start up without main supply
- Automated burn-in test function included to validate the operational performance of the UPS
- Designed for Regenerative Load Application, allows regenerative power to flow back smoothly to the mains without any damage to the UPS or interruption to the connected load.
- Lift compatibility to efficiently use reinjected energy from generative loads
- Parallelable up to 6 units, in power or redundancy, LCD settable
- Separate or common batteries for parallel systems
- Smart Rotation Redundancy for parallel system
- Front access for servicability and ease of maintenance
- HMI utilising 10.1inch Coloured LCD Touch Screen for advanced control and monitoring
- Wide communication offer as a standard: two com slots, RS232, USB, programmable dry contacts
- UPS information, settings and log file easily downloadable on removable SD card from LCD to simplify service operations
- UPS can be used with VRLA battery packs (AGM, Gel)

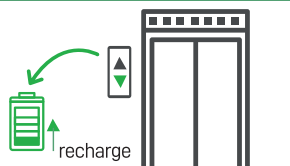
OPTIONS



- Optional Galvanic Isolation Transformer available for isolated neutral and critical environment application
- Internal backfeed protection provide easy installation without additional cost in UPS supply switchboard
- SNMP, RS485 Modbus, Dry Contacts
- Parallel kit
- External temperature sensor
- External battery cabinets

SMART FUNCTIONS

Optimised lift compatibility



Smart Battery Detection



SPECIFICATIONS

SPECIFICATION		Taurus 11K		Taurus 20K	Taurus 30K	Taurus 40K	Taurus 60K	Taurus 80K
RECTIFIER/ INPUT	Technology	3-level IGBT Bridge						
	Voltage	400V 3phase + N						
	Voltage Tolerance	±20% @ full load						
	Frequency	40~70Hz (independent from output frequency setting)						
	Power Factor	≥ 0.99						
	THDi	<3% @ 100% load						
	Power Walk-in	1sec ~ 150sec (settable)						
INVERTER/ OUTPUT	Technology	3-level IGBT Bridge						
	Nominal Power	11kVA	20kVA	30kVA	40kVA	60kVA	80kVA	
	Active Power	11kW	20kW	30kW	40kW	60kW	80kW	
	Voltage	380/400/415V 3phase + N						
	Voltage Tolerance	±1% (static load)						
	Power Factor	1.0						
	Frequency	50/60Hz						
	Frequency Tolerance	±0.05% (free running)						
	Crest Factor	3:1						
	Dynamic Stability, Recovery Time	±5%, recovery to 1% within 5ms						
	Voltage Harmonic Distortion	<1% with linear load; <3% with non-linear load						
	Overload	110% for 60 minutes, 125% for 10 minutes, 150% for 1 minute						
BYPASS	Voltage	380/400/415V 3phase +N						
	Voltage Tolerance	±0%~±20% (programmable)						
	Frequency	50/60Hz						
	Frequency Tolerance	±1Hz/±3Hz (selectable)						
BATTERY	Nominal Voltage	384Vdc ~ 480Vdc						
	Max. Charging current	3.5A	7A	10A	13A	20A	26A	
	Common battery for parallel configuration	Yes						
	Internal Batteries	Yes, up to 2 strings of 40 blocks of 12V/7AH or 12V/9AH					No, connects to External Battery Bank	
OPTIONS	Isolation Transformer	Optional Galvanic Isolation Transformer available on request						
	Backfeed Protection	Optional Backfeed Protection Kit available on request						
EFFICIENCY	VFI Mode	Up to 96%						
	ECO Mode	>98%						
GENERAL	Parallel	Up to 6 units						
	Dimensions (WxDxH) mm	440 x 840 x 1390					600 x 827 x 1300	
	Weight (kg)	84	86	130	132	200	210	
	Protection Grade	IP20						
	Display and MMI	4.3" color LCD touch screen						
	Built-in Communication	RS232, USB, EPO						
	Optional Communication	SNMP Card, RS-485 Modbus card, Dry Contact card						
ENVIRONMENT	Operating Temperature	0~40°C						
	Operating Humidity	0~95% (without condensation)						
	Operating Altitude	up to 1000m (without derating)						
	Ventilation	Forced air cooling with speed-controlled fans						
	Noise Level	<52dBA @ 1 meter			<55dBA @ 1 meter		<60dBA @ 1 meter	
CERTIFICATIONS	Standards (ISO)	ISO 9001:2015, ISO 14001:2015						
	Standards (IEC)	Safety: IEC/EN 62040-1, EMC: IEC/EN 62040-2, Performance: IEC/EN 62040-3 (VFI SS 111)						
	Standards (TIS)	TIS 1291 Volume 1, TIS 1291 Volume 2, TIS 1291 Volume 3						
	Markings	CE, TISI						

Specifications subject to change without notice

Designed &
Engineered by:

