





TAURUS SERIES

Three Phase UPS 10KVA - 60KVA



TAURUS THREE PHASE UPS SERIES

The Taurus is a three-phase, new generation of transformer-less UPS with power factor 1.0 which provides a perfect solution for power protection, and solves power quality problems such as surges, spikes, voltage fluctuations, harmonic distortion, clutter interference and frequency fluctuations.

The Taurus series is available 10-20-30-40-60kVA with three-phase input and output and on-line double conversion technology. Controlled by digital signal processor (DSP), it guarantees maximum protection for the installations supplied with a significant energy savings. Also, possibility to have dual feed on UPS input adds availability thus increases reliability of system.



Taurus is available in 10, 20, 30, 40kVA output power rates with internal space for housing max 80 batteries. Further extent reliability is accomplished by introducing intelligent charge mode which significantly prolongs service life of batteries.

To make it more flexible on the existing installation, Taurus can be work with a wide range of battery number: 32-34-36-38-40 blocks per string.

EFFICIENT ENERGY SOLUTION

Power Performance by providing a clean rectifier connection to the utility power. It meets today's industry standards for energy saving, low current harmonic pollution to the utility power.

HIGH EFFICIENCY FROM LOW LOAD TO FULL LOAD

The state-of-the-art three-level inverters of Taurus delivers high efficiency at partial and full load (up to 95 % in double conversion on line mode), dramatically reducing operating cost of the system, extending components service life and increasing overall power performance.

This high performance makes possible to recover the investment in less than three years of operation.

SUITABLE FOR THE LATEST GENERATION OF SERVERS

Taurus is designed to provide Output power factor 1.0, so the kW = kVA. It supply loads for both leading and lagging without de-rating. For this reason Taurus fits perfectly with the new generation of server (capacitive load).

The Taurus manage the input current total harmonic distortion (THDi) at a low level (3% at 100% load), eliminating harmonic distortion at the input of the system, providing greater operation reliability and extending the service life of UPS.

- POWER FACTOR 1.0
- 3 LEVEL IGBT TECHNOLOGY
- INTERNAL BATTERY FOR 10-20-30-40Kva SYSTEM
- TRUE ONLINE TECHNOLOGY FOR MAXIMUM POWER PROTECTION

INTERNAL

BATTERIES

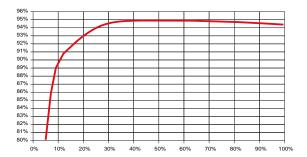
10-40KVA

WITH INTERNAL

BATTERIES

FULL LOAD RATED NO BREAK DUAL SOLID-STATE STATIC SWITCH

- LOW INPUT HARMONIC DISTORTION, THDi <3%
- UP TO 95% EFFICIENCY IN DOUBLE CONVERSION MODE
- HIGH INPUT POWER FACTOR <0,99
- 3 WORKING MODES: NORMAL, ECO, CONVERTER MODE
- LEADING AND LAGGING WITHOUT DE-RATING

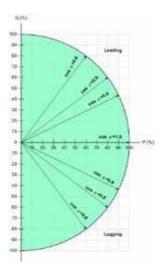


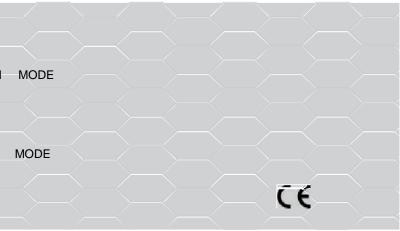
3 WORKING MODES:

Normal Mode (Online Mode): In Normal mode, grid power is passed through Rectifier then used to charge the battery and provide power through the Inverter simultaneously.

Economy Mode (ECO): Economy mode effectively improves overall efficiency. In ECO Mode grid power is routed through the Static Switch to the load.

Converter Mode: Converter Mode allows the user to provide a power supply with constant voltage and constant frequency based on their power requirements. The frequency can be set to 50HZ or 60HZ. The voltage options are 380/220V, 400/230V and 415/240V.





HIGH FLEXIBILITY

With a transformer less design and Energy Saving Storage (ESS) technology, the Taurus is available in various configurations with integrated enclosures and external battery cabinets, ranging from 10kVA to 60kVA to suit your requirements.

The Parallel Redundant System (up to 6) can be configured with common battery bank or individual battery bank to achieve the required back up time autonomy, providing highest load availability and reliability with cost effectiveness. The UPS continue to operate in parallel even if the connection cable is interrupted (Closed Loop).

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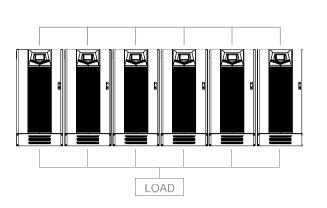
3 CHARGING MODES

Taurus UPS battery intelligent system consists of a series of features and programs to optimise battery management and obtain the best performance and operating life. It offers 3 battery charging modes:

C. C. Mode: Constant current charge (Equalizing)

C. V. Mode: Constant voltage charge

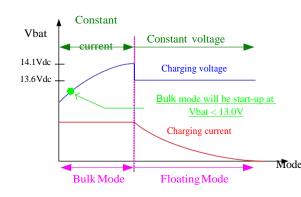
■ F. V. Mode: Constant voltage charge (Floating) This system allows recharging the battery in shorter time and preserving the battery life.



COMMON BATTERY

Taurus offer the possibility to connect common or individual battery and allows flexible string voltage.

The number of batteries is programmable: 32, 34, 36, 38, 40 blocks (12V), to achieve optimal sizing of battery capacity and minimal investment.



COMMON BATTERY BANK OR INDIVIDUAL BATTERY BANK CONFIGURABLE

■ INTELLIGENT BATTERY MANAGEMENT

- UP TO 6 UNITS POWER SCALABLE AND PARALLEL REDUNDANCY
- SELECTABLE NUMBER OF BATTERY PER STRING

DUAL INPUT

BUILT-IN LCD TOUCH SCREEN

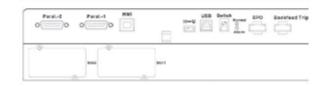
Taurus is a really user friendly UPS as it is equipped with a 4.3" LCD Touch screen. It provides: UPS information, measurement values, operating status and alarms in more than 15 languages. It is also possible to implement the by adding more languages if required.

The graphic user interface has been designed with 3 access levels (user, maintenance, and factory) to allow the different user to access or modify only specific parameters.

From the LCD is possible to read and download all the event logs to analyse the status of the UPS and maintain the unit on the proper way.

It is also possible tomake graphic customization if customer requires.





- ADVANCE INTERFACE TOUCH SCREEN DISPLAY
- POWER PEAK SHAVING AND LOAD LEVELLING
- SMALL FOOTPRINT
- COLD START (OPTIONAL)
- LITHIUM BATTERY

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COMMUNICATIONS MANAGEMENT

REMOTE

Communication Slot 1 for Relay card and RS-485 MODBUS card.

AND

Communication Slot 2 for Relay card and SNMP card

RS232 serial and USB ports

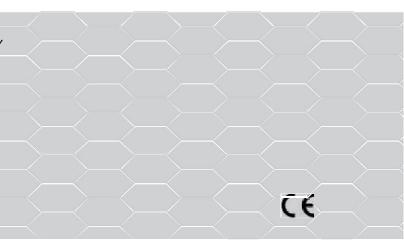
3 communication cards available: dry contact, RS485 and Parallel communication port LED Status Indictors

EPO-- Emergence Power Off

Temperature sensor to measure the external battery temperature

Backfeed Trip to trip the external electromechanical device for isolation from the power circuit

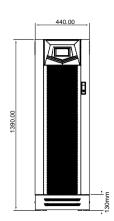
Output & Input Contacts: it provides 3 output dry contacts and1 input contact



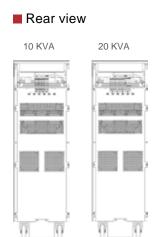
DIMENSIONS

TAURUS 10-20 KVA

Front view



Internal view	
	Parallel Communication Ports HMI Communication Port Communication Selector for service only USB Port for service only Terminal Resistor Setting Switch for parallel communication Status LED Indictors EPO Backfeed Protection Communication Card Slot2 Communication Card Slot2 Downstrict Mains Input Switch Switch Manual Bypass Switch H. Output Switch S. Fuses for Control Power Battery Tray (Option)



Rear view

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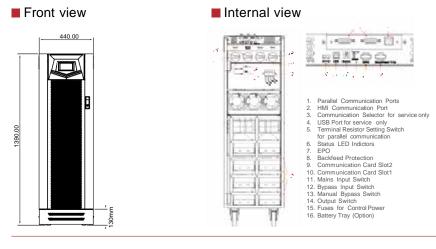
40 KVA

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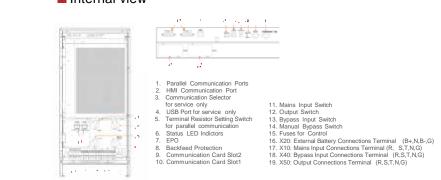
TAURUS 30-40 KVA



TAURUS 60 KVA

Front view

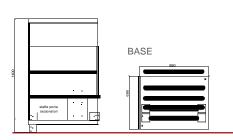
Internal view

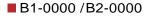


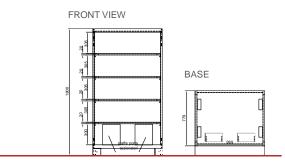
BATTERY BANKS

A1-0000 / A2-0000

FRONT VIEW







SPECIFICATIONS

Capacity		10KVA	20KVA	30KVA	40KVA	60KVA
	Operation Temperature	0~40°C				
Environment	Operation Humidity	0~95% (w/o condensation)				
	Tested to standards	LVD: EN62040-1, EMC requirements: EN62040-2				
	Mark	CE				
	Noise (at 1 meter)	<52dBA		<55dBA		<60dBA
Input	Voltage	400V 3 Phase + N				1
	Voltage Tolerance	±20% @ 100% load				
	Frequency	45 ~ 65Hz				
	Power Factor	≥0.99				
	THDi	<3%				
Bypass	Voltage 380			380/400/415	√ 3 Phase + N	
	Voltage Tolerance ±5%~±25% (Programmable)					
	Frequency	50/60Hz				
	Frequency Tolerance	±1Hz / ±3Hz (Selectable)				
	Voltage	380/400/415V 3 Phase + N				
	Voltage Tolerance	±1% (Static Load)				
	Power Factor	1.0				
	Frequency	50/60Hz				
Output	Frequency Tolerance	±0.01% (free running)				
	Crest Factor	3:1				
	Voltage Harmonic Distortion	<1% with linear load; <3% with distorting load				
	Overload	110% for 60 minutes, 125% for 10 minutes, 150% for 1 minutes				
	Number of batteries	32~40pcs configurable				
Battery	Max. Charging Current	3.5A	7A	10A	13A	20A
	Common Battery		Yes			
	Internal Batteries	Available for housing 9Ah 40pcs x 2 strings Not Available			Not Available	
	VFI Mode	94% 95%			%	
Efficency	ECO Mode			98%		
-	Backup Mode	93%		94%		
	Parallel	Up to 6 units				
General	Dimensions (W x D x H) mm	440 x 860 x 13		390 with Wheel		600x827x1345 (w/o Wheel)
	Protection Grade	IP20				
	Display and MMI	4.3" Colorful LCD Touch Screen				
	Built-in Communication Port	RS232, USB, EPO, Dry Contact				
	Optional Communication	2 Communication Slots forSNMP Card, RS-485 Modbus Card, Dry Contact Card				



CONTACT

Tel: +39 02 36696420 E-mail: sales_eu@ablerex.com.tw Website: www.ablerex.eu

HEADQUARTERS

Add: 1F, No. 3, Lane 7, Baogao Rd., Xindian Dist., New Taipei City 23144, Taiwan, R.O.C.

FACTORY ADDRESS

Add: No. 7, Gongye 4th Rd., Pingtung City, Pingtung County 90049, Taiwan. Add: No. 36, Wang Wu Road, Wu Zhong District, Suzhou, 215128, P.R. China.

R&D CENTER

Add: No. 157, Shuiyuan Rd., Sanmin District, Kaohsiung City 80766, Taiwan.