

## Products

### Uninterruptible power systems

TEC 9000-A series online double conversion Uninterruptible Power System

6-pulse thyristor rectifier full bridge

Battery voltage: 384Vdc

three-phase input: 400Vac/single-phase output: 230Vac three-phase input: 400Vac/three-phase output: 400Vac

Software for remote monitoring and supervision

TEC 9000-A is available with a power range from 10 to 40kVA, three-phase input/single-phase output and three-phase input /three-phase output, using double conversion online technology (VFI) with an inverter transformer for output galvanic isolation.

The load is powered continuously by the inverter with a filtered ,stabilized and regulated sinewave supply. The input and output EMI filters considerably increase the immunity of the load to mains disturbances and surges.

TEC 9000-A guarantees the maximum protection for critical loads networks, security applications and industrial application thanks to its outstanding mechanical and electrical design .

**Applications** 

ATSYS leading company in the design and manufacturing of power systems specialising in the

transportation

Data centres

Medical devices

**Emergency devices** 

Industrial application

Telecommunications devices



# TEC 9000-T1040

#### Uninterruptible Power Systems

10 to 40kVA

		Single phase output					Three phase output					
Apparent power (kVA)		10 <sup>(B)</sup>	<b>15</b> (B)	<b>20</b> (B)	30	40	10	15	20	30	40	
Active power (kW)		9	13.5	18	27	36	9	13.5	18	27	36	
		Input										
Nominal voltage		380-400-415Vac 3-phase										
Voltage tolerance		300~480 Vac										
Frequency		45~65 Hz										
Power walk-in		0~100% in 30sec. (selectable)										
Frequency tolerance		±2% (selectable from 1% to 5%)										
Standard features		Back feed protection and splitted bypass line										
		Output										
Power factor		0.9										
Nominal voltage		220-230-240Vac 1-phase 380-400-415Vac 3-phase										
Static stability		±1%										
Dynamic stability		±5% in 10msec										
Frequency		50-60 Hz (selectable)										
Frequency stability (on battery mode)		±0.05%										
Voltage distortion		>1% at linear load / <3% at non-linear load										
Crest factor		3:1										
Overload control		110% for 60min; 125% for 10min; 150% for 1min										
		Batteries										
Туре		Pb selead acid, Wet, Ni-Cd										
Ripple		>1%										
Temperature compens		-500mV x °C										
Typical charging current		0.2 x C10										
N. cells for Pb batteries		192										
DC voltage		384Vdc										
		System and environmental										
Efficincy		<93% in AC/AC; up to 98% in smart active mode										
Dimension WxDxH		555x740x1400										
Weight (kg)		200	220	230	290	340	210	220	230	280	330	
Cooling		Forced ventilation										
Colour		RAL 7035										
Protection degree		IP20 (higher levels of protection on request), IEC 60529										
Room temperature		0°C ~ +40°C										
Storage temperature		-20°C ~ +70°C >95% (non-condensing)										
Humidity		,										
Noise (dB at 1 meter)												
Compliance		Standards LV 2006/95/EC - 2004/108/EC - Safety IEC EN 62040-1 ; EMC IEC EN 62040-2  Performanc IEC EN 62040-3 ; VFI-SS-111 Classified as IEC 62040-3										
Compilance												
Front panel		User interface and communication  LCD display (HMI), mimic										
·	(standard)	Double RS323 ports with monitoring software; Dry contacts; 2 interface intelligent slots										
Connectivity	(standard) (optional)	SNMP card; JBUS/ModBus converter RS485 port; to ProfiBUS converter; Multi Licence										
Remote commands		SINIVI	i caru, Je	Joonwood	Jus Conve			1 1011003	CONVENTE	, water Ele	,ciice	
Remote com	manus	EPO and INV. OFF										

Isolating transformer on the inverter

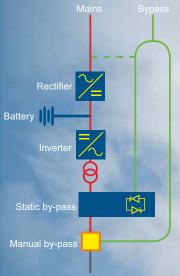
Extremely high short-circuit current

(B) Available also with internal batteries.

Note: product specifications are subject to change without further notice.

### Main features

- Reliable, filtered, stabilised and regulated sinewave output (double conversion on-line technology VFI according to EN50091-3 specifications with filters for atmospheric disturbance suppression)
- High reliability: IGBT technology, full microprocessor control with no break in static and manual transferring, high short-circuit current to ensure compatibility with the most difficult application (lighting, drives and industrial processes) and an isolating transformer on the inverter output
- High level diagnostics: event log, states, measurements and alarms, available from the built-in LCD in several languages
- Selectable power walk-in allows to limit the input rushing current
- Maximum reliability and power availability (parallel up to 8 units for redundant (N+1) or parallel operation)
- EPO (Emergency Power Off) input for UPS shut-down using remote emergency button
- + Front access
- Smart battery system suitable for use with Sealed, Wet, Ni-Cd battery type
- + Back-feed protection fitted as standard



double-Conversion on-line Technology



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