

Multi-function interface, permits activation and monitoring of each individual fan, for example



The benefits of E-TEC [e] series UPS systems at a glance:

- On-line UPS system as per IEC 62040, Part 3, VFI-SS-111
- IGBT technology incorporating harmonic filter (THD < 3%)
- Input voltage from -40% to +20%
- Built-in air filter as standard
- Up to six units can be installed in parallel / redundant
- Digital parallel logic in loop-feeder configuration
- All fans individually monitored
- All components accessible from the front
- Redundant Power Supply Unit (PSU) from 60 kVA upward
- All power elements temperature-monitored
- Space-saving as rear clearance not required
- Servicing-friendly modular structure
- Enhanced availability thanks to two mains inputs
- Smart battery management
- Cable entry from top and/or bottom
- Smart self-diagnosis system
- Short-circuit-proof thanks to digital control
- High short-circuit capacity in worst case scenario: 3 x Inom for 200 ms
- Bypass overload up to 1000% for 100 ms
- Integrated SNMP web card (optional)
- Electrical isolation at output (optional)
- MTBF 200,000 h
- MTBR 0.5 h

E-TEC [e] series UPS 20 - 140 kVA · Three-phase

Technical data									
UPS system type	e 320	e 330	e 340	e 360	e 380	e 3100	e 3120	e 3140	
Output power (kVA)	20	30	40	60	80	100	120	140	
Output power (kW)	16	24	32	48	64	80	96	112	
Input									
Rated voltage	230/400 VAC (220/380VAC) + neutral ± 20%								
Power factor	> 0,99								
Frequency	50Hz ± 10% / 60Hz ± 10% (selectable)								
Technology	IGBT technology with input filter and PFC								
Total harmonic distortion (THDI)	< 3%								
Output									
Rated voltage	230/400 VAC (220/380 VAC)								
Voltage tolerance	± 1% static, +2% dynamic at 100% load surge								
Efficiency	ECO mode 98% / load-dependent from 91 to 94%								
Frequency	50Hz / 60Hz ± 0.01% (battery operation)								
Total harmonic distortion (THD)	Linear load < 0.5% / SMPS load < 4%								
Crest factor	3:1								
Overload capacity	110% for 60 min., 125% for 10 min., 150% for 1 min.								
Short-circuit at output	3 x rated system current for 200 ms								
Batteries									
Types	VRLA (Valve Regulated Lead Acid Batteries) / Low Maintenance Vented Stationary Batteries								
Rated battery voltage	480 V DC								
Batterie test	automatic (programmable)								
Battery temperature, recomm.	20°C - 25°C								
Bypass									
Bypass input voltage	230/400 VAC (220/380VAC) + neutral ± 10%								
Interfaces									
Communications port	RS232 / RS485 / RJ11 / SNMP								
Potential-free contacts	Battery operation, bypass operation, overload, common alarm								
SNMP-Adapter	optional, installed in slot								
Optional	MOD bus/j bus/Profibus/Model/Web/Tel-net/GPRS/CAN bus								
General									
Degree of protection	IP20 (higher available on request)								
Safety	EN 50091, Part 1								
EMC	EN 50091, Part 2								
Parallel/redundant configurability	up to 6 units								
Air humidity	max. 95%, non-condensing								
Power factor, output	0.8 ind., up to 0.9 cap.								
Installation altitude	up to 1000 m above sea level without loss of performance								
Noise generation	55dB(A)		62dB(A)		65dB(A)				
Soft start for generator operation	standard: 10 seconds (adjustable)								
Classification	VFI-SS-111 as per IEC 62040, Part 3								
Weight in kg (not inc. battery)	300	300	320	360	400	570	600	600	
Dimensions mm (WxDxH)	600x800x1600		700x800x1820		1000x800x1880				
Finish	Black, RAL 9005, textured semi-gloss								

Right of technical modification reserved.

Service

A team of experienced and highly qualified technicians are at your disposal for maintenance and servicing of E-TEC UPS equipment. Only regular inspection and expert maintenance of these systems can guarantee maximum availability. Service agreements of various scopes, ranging from preventative to all-in service, with a 24/7 telephone hotline, are available.

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Complete Power Solutions



UPS Series [e]
20 - 140 kVA

[e]

E-TEC protects the physical infrastructure of your IT systems

UPS Series [e]

20 - 140 kVA [e]ffective protection!

Finance departments, web-hosting centres, e-mail servers - the continuous operation of all is critical. Today, our dependence on a secure, high-availability power supply is greater than ever - power failures can be crippling.

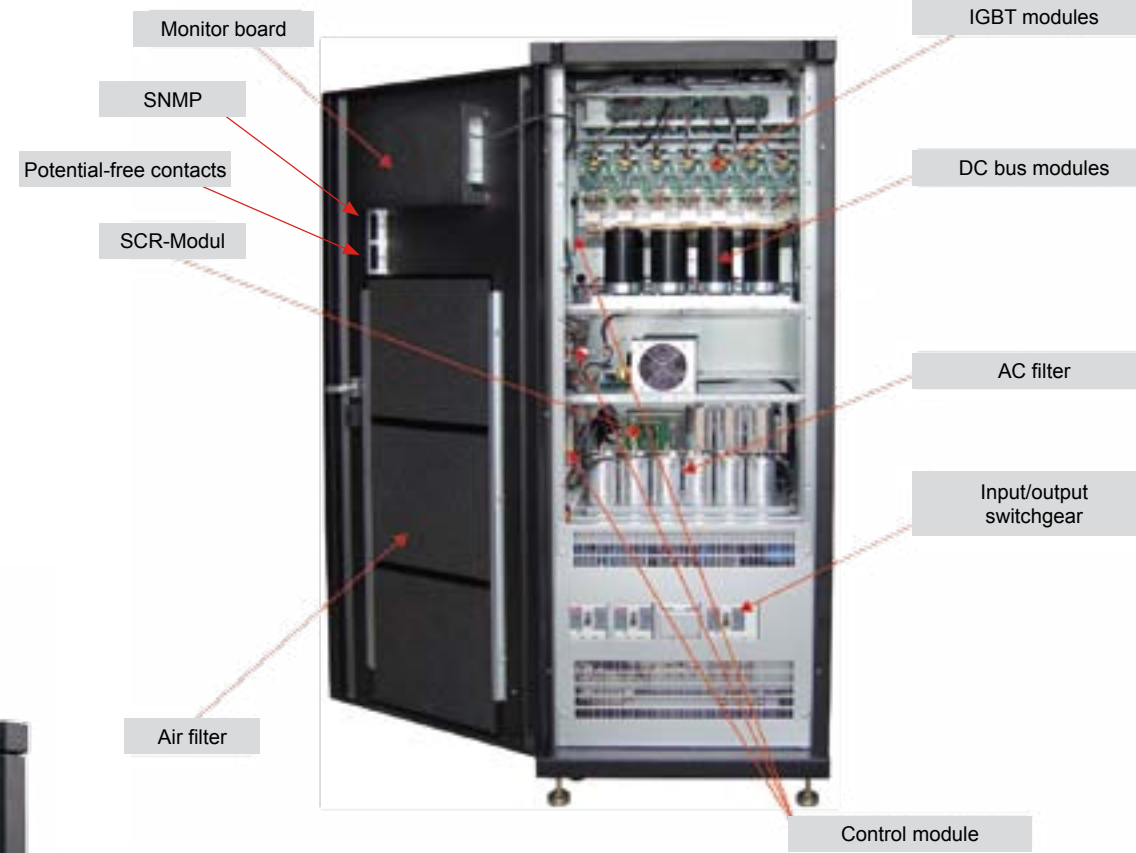
Entire company infrastructures nowadays depend on their IT systems - mains supply problems of any type can cause outages that in many cases mean significant costs and losses for the organisation.

On-line UPS systems prevent the failure of data-processing systems and other critical facilities due to power failures or other mains problems

The [e] series of UPS systems are genuine Double Conversion systems in accordance with VFISS111 (IEC 62040, Part 3) and continuously regulate supply voltage, protecting critical resources against mains disturbances. If a power failure occurs, supply to your sensitive systems continues without interruption from the battery for the defined battery operating period. Your equipment is also safely switched to mains supply via the internal electronic switching circuitry in case of overloads or system faults. Since these UPS systems generate virtually no mains repercussion, they are outstandingly suitable for operation in combination with standby generator sets, to permit bridging even of longer power failures.



E-TEC three-phase UPS system 60 kVA e 360

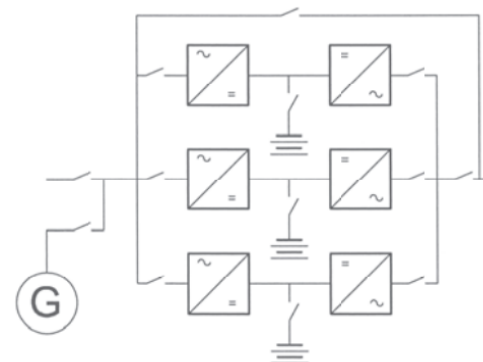


UPS-Series [e]



The LCD display shows information such as: input and output current and voltage per phase, battery voltage and capacity, battery temperature, and the input and output power factors - giving you absolute control over the system's load state.

The UPS units can be paralleled to increase output power or achieve redundancy. E-TEC's external bypass switch concept permits retrospective expansion or redundant configuration of system output without interruption.



Software for system monitoring, computer communication and server shut-down:

All E-TEC UPS systems can be comprehensively monitored via the LAN/WAN network using our power management software. All events are recorded in log files and can thus be traced in real time. Information on operating mode (e.g. battery operation), input, output and battery voltage, and details of remaining battery capacity as a function of the connected load, is displayed in a clear manner on the respective servers. Shut-down of computer systems can be initiated by the software via the interface if no generator takes over supply of the UPS system and thus the equipment-load in case of power failure. The servers are individually configured and shut down as necessary.

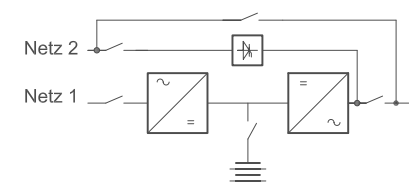


Battery cubicle

E-TEC switchgear



On-line UPS system with external bypass and two mains inputs for enhanced availability.



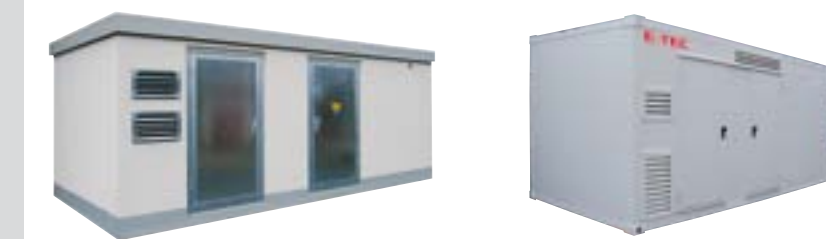
E-TEC
POWER MANAGEMENT

E-TEC all-in solutions for maximum energy availability

Standby generator sets from 50 to 2500 kVA
Enclosed sound attenuated and open versions



Uninterruptible power supply as a stand-alone solution - Conpower Container
Including [e] series UPS, cooling unit and generator
Concrete and steel versions available



Turn-Key Data Center [rz]
A future-orientated concept - tailored precisely to individual users' needs, including full power protection, cooling & server room infrastructure

