



Working in Power

TEC 9000-EL Online UPS
 3 phase - 3 Phase 10~120KVA PF: 0.9

Online transformer less UPS

Features

- High frequency online double-conversion with DSP control
- Modular design, high reliability, easily maintenance
- Double Input distribution, higher reliability of system
- Input power factor correction (IPFC)
- ECO mode operation for energy saving
- Wide input voltage range, 50 Hz / 60 Hz auto-sense frequency
- Support two modes of frequency conversion: 50 Hz input / 60 Hz output and 60 Hz input / 50 Hz output
- Input power factor > 0.99, input THDi ≤ 3%, output THDv ≤ 3%
- Output power factor 0.9
- High efficiency: load > 10%, efficiency ≥ 90%; load > 50%, efficiency ≥ 93%
- Digitized charger: flexible charger parameter and battery configuration setting, monitoring battery disconnected on line
- Share battery pack in parallel operation or separate battery pack for different UPS
- Flexible charger parameter and battery configuration setting, selectable battery number: 32 pcs / 34 pcs / 36 pcs / 38 pcs / 40 pcs
- Advanced intelligent battery management technique, prolong the working life of battery effectively
- Support battery cold start and mains supply self-starting
- 5.7 inches LCD touch screen, friendly human & machine interface
- Perfect protective function in hard and software, robust self-diagnosing, abundant event log for failure check
- Perfect password control technology, including the first power-on password control, user password control and Maintenance password control.
- Reminders of battery and DC BUS capacitors out of warranty
- Standard emergency power off (EPO)
- Standard RS232 / USB / RS485 / dry contacts communication port
- Optional SNMP communication port
- Optional N+1 redundancy parallel up to 6 units
- Optional built-in isolation transformer
- Optional battery temperature compensation

Code								
Capacity	10KVA 9KW	20KVA 18KW	30KVA 27KW	40KVA 36KW	60KVA 54KW	80KVA 72KW	100KVA 90KW	120KVA 108KW
INPUT								
Rated voltage	204 ~ 520 Vac (load ≤ 50%);							
Voltage range	242 ~ 520 Vac (50% < load ≤ 70%); 304 ~ 520 Vac (70% < load ≤ 100%)							
Rated frequency	50 / 60 Hz (auto-sense)							
Frequency range	40 ~ 70 Hz							
Power factor	≥ 0.99							
Total harmonic distortion (THDI)	≤ 3%							
Bypass voltage range	Rated output voltage -40% ~ rated output voltage +20% (settable via LCD)							
OUTPUT								
Voltage	380 V / 400 V / 415 Vac							
Voltage regulation	± 1%							
Frequency	Synchronized with utility in mains mode; Frequency conversion mode: 50 Hz input and 60 Hz output or 60 Hz input and 50 Hz output 50 / 60 Hz in battery mode							
Waveform	Sinusoidal							
Crest factor	3:1							
Total harmonic distortion (THDV)	≤ 1% (linear load); ≤ 3% (non-linear load)							
Transfer time	0 ms							
Inverter overload capability	102% ~ 125%: transfer to bypass in 10 mins; 125% ~ 150%: transfer to bypass in 1 min; > 150%: transfer to bypass in 0.5 s							
Bypass overload capability	≤ 150%: long time running > 150%: shut down in 10 s							
BATTERIES								
DC voltage	± 192 V (options: ± 204 V / ± 216 V / ± 228 V / ± 240 V)							
Inbuilt battery of standard model	32 × 12 V / 9 Ah	64 × 12 V / 9 Ah	No					
Charging current	1 ~ 12 A (settable via LCD)			1 ~ 24 A (settable via LCD)			1 ~ 24 A (settable via LCD) 1 ~ 48 A (optional)	
SYSTEM								
Efficiency	≥ 93%, ECO mode 98.5%							
Display panel	5.7 Inches LCD touch screen							
Alarm	Battery mode, low battery, fans fault etc							
Max. parallel numbers	6							
EMI	EN62040-2							
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (surge)							
COMMUNICAITONS								
RS232 / RS485 / USB / dry contacts (standard)	Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10							
SNMP (optional)	Power management from SNMP manager and web browser							
OTHERS								
Humidity	0 ~ 95% RH @ 0 ~ 40°C (non-condensing)							
Noise level	≤ 60 dB							
Dimensions (W × D × H) (mm)	600 × 800 × 1360							
Packaged dimensions (W × D × H) (mm)	720 × 920 × 1500							
Net / Gross weight (kg)	180 / 200	185 / 205	190 / 210	225 / 245	230 / 250	336 / 376	374 / 414	
Without inbuilt battery								

- All specifications subject to change without notice.
- Custom-made specifications are acceptable.

Rear Panel



1. SNMP (optional)
2. RS232
3. RS485
4. USB

5. TEMP COMPENSATION
6. BATTERY PROTECTION
7. DRY CONTACT
8. PARALLEL PORT (optional)