



نارون / Narvan

TEC 9000 Pro RT 1 KVA ~ 3KVA PF 0.9

- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- output power factor 0.9
- wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 4h (standard model USP)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Hot-swappable battery
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 /SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, MBS (External maintenance bypass switch)



| MODEL | TEC9001 | | TEC9002 | | TEC9003 | | مدل |
|----------------------------------|---|-------------|----------------------|-------------|----------------------|-------------|----------------------------------|
| Capacity | 1KVA / 900W | | 2KVA / 1800W | | 3KVA / 2700W | | ظرفیت |
| INPUT | | | | | | | |
| Rated voltage | 208 / 220 / 230 / 240 Vac | | | | | | ولتاژ نامی |
| Voltage range | 110 ~ 176 Vac (linear derating between 50% and 100% load): 176 ~ 280 Vac (no derating) :280 ~ 300 Vac (derating 50%) | | | | | | محدوده ولتاژ |
| Frequency | 40 ~ 70 Hz (auto - sensing) | | | | | | فرکانس |
| Power factor | ≥ 0.99 | | | | | | ضریب قدرت |
| Bypass voltage range | - 25% ~ + 15% (settable) | | | | | | محدوده ولتاژ بای پس |
| Total harmonic distortion | ≤ 6% | | | | | | مجموع اعوجاج هارمونیک |
| OUTPUT | | | | | | | |
| Voltage | 208 / 220 / 230 / 240 Vac (settable via LCD) | | | | | | ولتاژ |
| Voltage regulation | ±1% | | | | | | تنظیم ولتاژ |
| Frequency | 45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range) ; 50 / 60 Hz ± 0.1 Hz (battery mode) | | | | | | فرکانس |
| Waveform | Sinusoidal | | | | | | شکل موج |
| Power factor | 0.9 | | | | | | ضریب قدرت |
| Total harmonic distortion(THD v) | ≤ 2% (linear load); ≤ 5% (non-linear load) | | | | | | مجموع اعوجاج هارمونیک (THD v) |
| Crest factor | 3:1 | | | | | | فاکتور قله |
| Overload | 105% ~ 125% for 1 min , 125% ~ 150% for 30s , >150% for 300 ms | | | | | | اضافه بار |
| BATTERIES | | | | | | | |
| DC voltage | 24 V (S) | 24 V (L) | 48 V (S) | 48 V (L) | 72 V (S) | 72 V (L) | ولتاژ DC |
| Inbuilt battery | 2 × 9 AH | / | 4 × 9 AH | / | 6 × 9 AH | / | باتری داخلی |
| Charging current (max.) | 1 A | 4 A | 1 A | 4 A | 1 A | 4 A | جریان شارژ (حداکثر) |
| Recharger time | Standard model: 90% capacity restored in 3 hours ; Long time model: depend on the capacity of battery | | | | | | زمان شارژ مجدد |
| SYSTEM | | | | | | | |
| Efficiency | ≥ 90% (Mains mode) | | ≥ 91% (Mains mode) | | ≥ 92% (Mains mode) | | بهره وری |
| | ≥ 85% (Battery mode) | | ≥ 86% (Battery mode) | | ≥ 87% (Battery mode) | | |
| | ≥ 95% (ECO mode) | | ≥ 96% (ECO mode) | | ≥ 97% (ECO mode) | | |
| Transfer time | Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical) | | | | | | زمان انتقال |
| Protections | Short-circuit , overload , overtemperature , battery discharge protection and fan testing protection | | | | | | حفاظت ها |
| Communications | RS232 (standard), USB / RS485 / dry contacts / SNMP (optional) | | | | | | ارتباطات |
| Display | LCD + LED | | | | | | نمایش |
| Standards | EN 62040-1, EN 62040-2, EN 61000-3-2, EN61000-3-3, IEC 61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC 61000-4-5, IEC61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1 | | | | | | استانداردها |
| OTHERS | | | | | | | |
| Operating temperature | 0°C ~ 40°C | | | | | | دمای عملیاتی |
| Storage temperature | -25°C ~ 55°C (without batteries) | | | | | | دمای ذخیره سازی |
| Relative humidity | 0 ~ 95% (non-condensing) | | | | | | رطوبت نسبی |
| Altitude | ≤ 1000 m, derating 1% for each additional 100 m | | | | | | ارتفاع |
| IP rating | IP 20 | | | | | | رتبه بندی IP |
| Noise level at 1m | ≤ 50 dB | | | | | | سطح سر و صدا در 1 متر |
| Dimensions (W×D×H) (mm) | 440×338×88 | 440×486×88 | 440×430×88 | 440×486×88 | 440×560×88 | 440×486×88 | ابعاد (W×D×H) (mm) |
| Packaged dimensions (W×D×H) (mm) | 545×428×194 | 545×592×201 | 545×560×201 | 545×592×201 | 545×690×201 | 545×592×201 | ابعاد بسته بندی شده (W×D×H) (mm) |
| Net weight (kg) | 10.6 | 7.6 | 18.7 | 9.7 | 26.8 | 10.1 | وزن خالص (kg) |
| Gross weight (kg) | 11.3 | 11.1 | 21.8 | 13.2 | 29.7 | 13.6 | وزن ناخالص (kg) |

• Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.
• S means standard model , L means long time model.

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