



سوباتان / Subatan

TEC 9000

6 KVA ~ 10 KVA (1:1)
10 KVA ~ 20KVA (3:1)

- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- wide input voltage range (110 ~ 288 Vac) and frequency rang (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Hot- swappable battery
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery managment, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD + LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485 and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check
- **Available Options**
- RS232 and smart card slot included
- Option parallel function, battery temperature compensation, USB, RS485 card, dry contacts, EMD, and SMS alarms



MODEL	TEC9006 (1:1)	TEC9010 (1:1)	مدل
Capacity	6KVA / 6KW	10KVA / 10KW	ظرفیت
INPUT			
Input wiring	Single - phase three-wire (1Φ + N + PE)		سیم کشی ورودی
Rated voltage	208 / 220 / 230 / 240 Vac		ولتاژ محاسبه شده
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)		محدوده ولتاژ
Rated frequency	50 / 60 Hz (auto - sensing)		فرکانس رتبه بندی
Frequency range	40 ~ 70 Hz		محدوده فرکانس
Power factor	≥ 0.99		ضریب قدرت
Bypass voltage range	- 40% ~ +15% (settable)		محدوده ولتاژ بای پس
Total harmonic distortion (THDi)	≤ 5%		مجموع اعوجاج هارمونیک (THDi)
OUTPUT			
Output wiring	Single-phase (L - N)		سیم کشی خروجی
Rated voltage	208 (PF = 0.9) / 220 / 230 / 240 Vac		ولتاژ نامی
Voltage regulation	±1%		تنظیم ولتاژ
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode		فرکانس
Waveform	Sinusoidal		شکل موج
Power factor	1		ضریب قدرت
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)		مجموع اعوجاج هارمونیک (THDv)
Crest factor	3 : 1		فاکتور قله
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s		اضافه بار
BATTERIES			
DC voltage	192 Vdc (192 ~ 240 Vdc settable)		ولتاژ DC
Number of battery	16 pcs (16 ~ 20 settable)		تعداد باتری
charging current	Standard model: 1A; Long time model: 5A & 12A (default)		جریان شارژ
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery		زمان شارژ مجدد
SYSTEM			
Efficiency	≥ 94% at 100% load, max. 94.5% at 60% load, ≥ 98% in ECO mode		بهره وری
Transfer time	0 ms		زمان انتقال
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure		حفاظت ها
Max. number of parallel connections	2		حداکثر تعداد اتصالات موازی
Communications	RS232(standard), USB / RS485 / dry contacts / battery temperature compensation (optional)		ارتباطات
Display	LCD + LED		نمایش
OTHERS			
Operating temperature	0°C ~ 40°C		دمای عملیاتی
Storage temperature	-25°C ~ 55°C (without battery)		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	≤ 55 dB	≤ 58 dB	سطح سر و صدا در ۱ متر
Dimensions (W×D×H) (mm)	450 × 190 × 460		ابعاد (W × D × H) (mm)
Packaged dimensions (W× D× H) (mm)	490 × 235 × 500		ابعاد بسته بندی شده (W × D × H) (mm)
Net weight (kg)	16/900	18/100	وزن خالص (kg)
Gross weight (kg)	17/100	18/400	وزن ناخالص (kg)

• All specification are subject to change without no tice.

MODEL	EA9010 (3:1)	EA9015 (3:1)	EA9020 (3:1)	مدل
Capacity	10 KVA/10000 W	15 KVA/15000 W	20 KVA/20000 W	ظرفیت
INPUT				
Input wiring	phase three five-wire (3Φ+ N + PE)			سیم کشی ورودی
Rated voltage	380 / 400 / 415 Vac			ولتاژ محاسبه شده
Voltage range	190 - 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 Vac (no derating)			محدوده ولتاژ
Rated frequency	50 / 60 Hz (auto - sensing)			فرکانس رتبه بندی
Frequency range	40 ~ 70 Hz			محدوده فرکانس
Power factor	≥ 0.99			ضریب قدرت
Bypass voltage range	- 40% ~ +15% (settable)			محدوده ولتاژ بای پس
Total harmonic distortion (THDi)	≤ 5%			مجموع اعوجاج هارمونیک (THDi)
OUTPUT				
Output wiring	Single-phase three-wire (1Φ+N + PE)			سیم کشی خروجی
Rated voltage	208 (PF = 0.9) / 220 / 230 / 240 Vac			ولتاژ نامی
Voltage regulation	±1%			تنظیم ولتاژ
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode			فرکانس
Waveform	Sinusoidal			شکل موج
Power factor	1			ضریب قدرت
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)			مجموع اعوجاج هارمونیک (THDv)
Crest factor	3 : 1			فاکتور قله
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s			اضافه بار
BATTERIES				
DC voltage	192 Vdc (192 ~ 240 Vdc settable)			ولتاژ DC
Number of battery	16 pcs (16 ~ 20 settable)			تعداد باتری
Inbuilt battery (standard model)	12V / 9 Ah × 16	/	/	باتری داخلی (مدل استاندارد)
charging current	Standard model: 1A ; Long time model: 5 A (default) 1-5 A settable; 10 A (optional)			جریان شارژ
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery			زمان شارژ مجدد
SYSTEM				
Efficiency	≥ 94% at 100% load, max. 94.5% at 60% load, ≥ 98% in ECO mode			بهره وری
Transfer time	0 ms			زمان انتقال
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure			حفاظت ها
Max. number of parallel connections	4			حداکثر تعداد اتصالات موازی
Communications	RS232(standard), USB / RS485 / dry contacts / battery temperature compensation (optional)			ارتباطات
Display	LCD + LED			نمایش
OTHERS				
Operating temperature	0°C ~ 40°C			دمای عملیاتی
Storage temperature	-25°C ~ 55°C (without battery)			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	≤ 58 dB			سطح سر و صدا در 1 متر
Dimensions (W × D × H) (mm)	191×495×711 (S) 191×495×350 (H)	191×495×515 (S)		ابعاد (W × D × H) (mm)
Packaged dimensions (W × D × H) (mm)	310×685×941 (S) 318×617×475 (H)	285 × 593 × 618 (H)		ابعاد بسته بندی شده (W × D × H) (mm)
Net weight (kg)	64 (S), 18.5 (H)	26.5 (H)		وزن خالص (kg)
Gross weight (kg)	72 (S), 20 (H)	28 (H)		وزن ناخالص (kg)