

TEOS+ 100RT

6-10kVA

Advanced DSP and 3-Level Technology

High Efficiency

Power Factor 1.0



GENERAL SPECIFICATIONS

- 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 range (40 - 70Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50Hz input / 60Hz output or 60Hz input / 50Hz output
- Hot-swappable battery
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands
- Linear debating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, 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, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust and self-diagnostic function, and abundant event log for check
- Available Options
- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

TECHNICAL SPECIFICATIONS

MODEL	Teos+ 106RT	Teos+ 110RT
Capacity	6 kVA / 6 kW	10 kVA / 10 kW
INPUT		
Input wiring	Single-phase three-wire (16 + N + PE)	
Rated voltage	208 / 220 / 230 / 240 Vac	
Voltage range	110 - 176 Vac (linear derating between 50% and 100% load); 176 - 288 Vac (no derating)	
Rated frequency	50/60Hz (auto-sensing)	
Frequency range	40 - 70 Hz	
Power factor	0.99	
Bypass voltage range	- 40% ~ +15% (settable)	
Total harmonic distortion (THDi)	≤ 5%	
OUTPUT		
Output wiring	Single-phase (L- N)	
Rated voltage	208 (PF= 0.9) / 220 / 230 / 240 Vac	
Voltage regulation	± 1%	
Frequency	Synchronized to bypass in mains mode; 50/60 Hz + 0.1%Hz in battery mode	
Waveform	Sinusoidal	
Power factor	1.0	
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load);	
Crest factor	3:1	
Overload	105% - 110% for 10 min, 110% - 125% for 1 min, 126% - 150% for 30 s	
BATTERIES		
DC voltage	192 Vdc (192-240 Vdc settable)	
Number of battery	16 pcs (16 - 20 settable)	
Inbuilt battery (standard model)	12 V / 7 Ah x 16	12 V / 9 Ah x 16
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 - 5 A settable, 12 A (optional; PF 0.9)	
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery	
SYSTEM		
Efficiency	94% at 100% load, max. 94.5% at 60% load, a 98% in ECO mode	
Transfer time	0 ms	
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure	
Max. number of parallel connections	4	
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP/ battery temperature compensation (optional)	
Display	LCD + LED	
GENERAL		
Operating temperature	0°C ~ 40°C	
Storage temperature	-25°C ~ 55°C (without battery)	
Relative humidity	0 - 95% (non-condensing)	
Altitude	≤ 1000 m, debating 1% for each additional 100 m	
IP rating	IP 20	
Noise level at 1 m	≤ 55 dB	≤ 58 dB
Dimensions (HxWxD) (mm) (*)	88x440x580 (H) 176x440x660 (S)	
Packaged dimensions (HxWxD) (mm) (*)	168x514x696 (H) 418x554x792 (S)	
Net weight (kg) (*)	12 (H), 58 (S)	14 (H), 63 (S)
Gross weight (kg) (*)	14 (H), 68 (S)	16 (H), 73 (S)
(*) S means standard model; H means long time model.		