

TEOS+ 200

10-20kVA

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
- 3:1 to 1:1 model settable
- Wide input voltage range (190 - 499 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
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 10 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

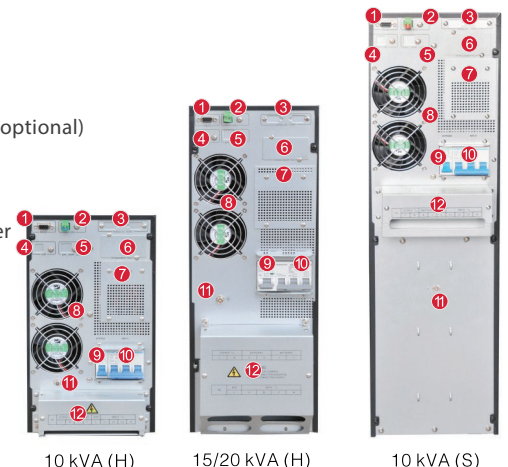
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust and self-diagnostic function, and abundant event log for check

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

REAR PANEL

1. RS232
2. EPO
3. Parallel port (optional)
4. USB (optional)
5. Temperature detection (optional)
6. Intelligent slot
7. Reserved: for manual bypass or battery breaker or outlets ect.
8. Fans
9. Bypass breaker
10. Input breaker
11. GND
12. Terminals and cover



10 kVA (H)

15/20 kVA (H)

10 kVA (S)

TECHNICAL SPECIFICATIONS

MODEL	Teos+ 210		Teos+ 215	Teos+ 220
Capacity	10 kVA / 10 kW		15 kVA / 15 kW	20 kVA / 20 kW
INPUT				
Input wiring	Three-phase five-wire (3Φ + N + PE)			
Rated voltage	380 / 400 / 415 Vac			
Voltage range	190 - 305 Vac (linear derating between 50% and 100% load); 305 - 499 Vac (no derating)			
Rated frequency	50/60 Hz (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 three-wire (1Φ + N + PE)			
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			
Voltage THD	≤ 1% (linear load); ≤ 3% (non-linear load)			
Crest factor	3:1			
Overload	105% - 110% for 10 min, 110% - 125% for 1 min, 126% - 150% for 30s			
BATTERIES				
DC voltage	192 Vdc (192 - 240 Vdc settable)			
Number of battery	16 pcs (16 - 20 settable)			
Inbuilt battery (standard model)	12 V / 9Ah x 16	/		12 V / 7Ah x 40
Charging current	Standard model: 1A; Long time model: 5A (default), 1 - 5A settable; 10A (optional)			
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. 95% at 60% load, ≥ 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, derating 1% for each additional 100 m			
IP rating	IP 20			
Noise level at 1m	≤ 58 dB			
Dimensions (HxWxD) (mm) (*)	711x191x495 (S) 350x191x495 (H)	515x191x495 (H)		731x262x942,5 (S)
Packaged dimensions (HxWxD) (mm) (*)	941X310X685 (S) 475x318x617 (H)	618x285x593 (H)		990x353x860 (S)
Net weight (kg) (*)	18.5 (H), 64 (S)	26.5 (H)		236 (S)
Gross weight (kg) (*)	20 (H), 72 (S)	28 (H)		240 (S)
(*) S means standard model; H means long time model.				