

TEOS+ 300RT

10-60kVA

5 Inches LCD Colorful Touchscreen

Output Power Factor (PF) 1.0

DSP Technology



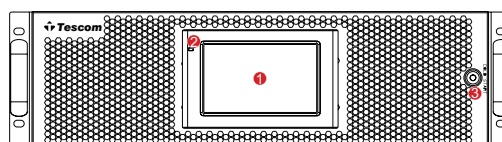
1.0 POWER FACTOR	 RACK	VFI TYPE UPS ONLINE	 USB	 SERVICE / TECH. SUPPORT
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GENERAL SPECIFICATIONS

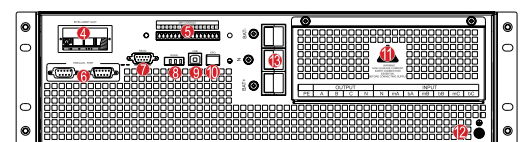
- High frequency on-line double conversion technology
- Advanced dual-core DSP control technology and 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 96%, energy saving rate is doubled
- Output power factor 1.0
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range
- 50 / 60 Hz auto-sensing frequency
- 50 / 60 Hz frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Flexible battery configuration setting, selectable battery numbers: 32~ 40 pcs
- Digitally controlled charger (Max. 20 A)
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Compact internal layout, small footprint
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Standard RS232, USB, RS485, EPO, Dry contacts, Parallel port
- Optional SNMP card, Wi-Fi card, GPRS card, SMS alarms

Rear Panel

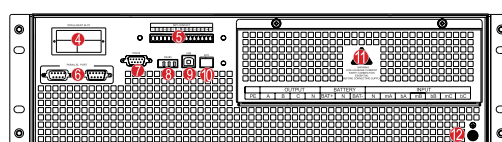
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|-------------------------|----------------------------------|
| 1. The touch screen LCD | 8. RS485 |
| 2. LED | 9. USB |
| 3. Battery start button | 10. EPO |
| 4. SNMP card (optional) | 11. Terminal block |
| 5. Dry contacts | 12. GND |
| 6. Parallel port | 13. Battery connectors for 30kVA |
| 7. RS232 | |



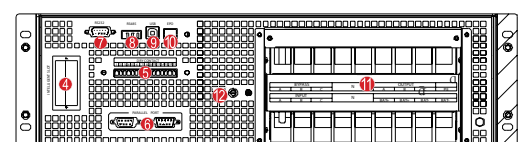
10-60kVA front appearance



30kVA back appearance



10-20kVA back appearance



40-60kVA back appearance

TECHNICAL SPECIFICATIONS

MODEL	Teos+ 310RT	Teos+ 315RT	Teos+ 320RT	Teos+ 330RT	Teos+ 340RT	Teos+ 360RT
Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW	30 kVA / 30 kW	40 kVA / 40 kW	60 kVA / 60 kW
INPUT						
Rated voltage	380 / 400 / 415 Vac (3Φ+N+PE)					
Voltage range	304~478 Vac, full load 228V~304 Vac (L-L), load decrease linearly according to the min phase voltage					
Rated frequency	50/60Hz (auto-sensing)					
Frequency range	40 - 70 Hz					
Power factor	> 0.99					
Bypass voltage range	Selectable default ~ 20% + 15% Up limited: + 10%, + 15%, + 20%, + 25%; Down limited: - 10%, - 15%, - 20%, - 30%, - 40%					
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz					
Total harmonic distortion (THDi)	< 3% (full Linear Load)					
Bypass overload	125%: Long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; > 400%, less than 200ms					
OUTPUT						
Rated voltage	380 / 400 / 415 Vac (3Φ+N+PE)					
Voltage regulation	± 1% (full Linear Load)					
Frequency	Synchronized with utility in mains mode, 50/60 Hz ± 0.1% in battery mode					
Waveform	Sinusoidal					
Power factor	1.0					
Total harmonic distortion (THDv)	< 1% (full Linear Load), < 3% (full non-linear load according to IEC / EN62040-3)					
Crest factor	3:1					
Overload	<110%, 60min; 110%~125%,10min; 125%~150%,1min; >150%, 200ms					
BATTERIES						
DC voltage	± 240VDC (Selectable, 32 - 40pcs)					
Charging current	10A max		15A		20A	
Charger Voltage precision	1%					
Recharge time	Long time model: depend on the capacity of battery					
SYSTEM						
Efficiency	95% Max			96% Max		
Transfer time	0 ms					
Max. number of parallel connections	4					
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure					
Communications	RS232, USB / RS485 / EPO / Dry contacts / Parallel port (standard) / SNMP Card / WI-FI Card / GPRS Card / SMS Alarms (optional)					
Display	LED + 5 inches LCD touch screen					
OTHERS						
Operating temperature	0°C ~ 40°C					
Storage temperature	-40°C ~ 70°C					
Relative humidity	0 - 95% (non-condensing)					
Altitude	<1000m, Load derated 1% per 100m from 1000 ~ 2000m					
IP rating	IP 20					
Noise level at 1 m	< 60dBA			< 65dBA		
Dimensions (HxWxD) (mm)	130 x 440 x 660		130 x 440 x 750		130 x 440 x 730	130 x 440 x 800
Packaged dimensions (HxWxD) (mm)	204 x 532 x 800		204 x 532 x 890		226 x 535 x 865	226 x 535 x 930
Net weight (kg)	22	24	29	33	39	
Gross weight (kg)	24	26	31	36	42	