

## TEOS+ 300RT

10-30kVA

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



## GENERAL SPECIFICATIONS

- 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 95%, 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.10 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

## TECHNICAL SPECIFICATIONS

MODEL	Teos+ 310RT	Teos+ 315RT	Teos+ 320RT	Teos+ 330RT
Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW	30 kVA / 30 kW
<b>INPUT</b>				
Rated voltage	380 / 400 / 415 Vac (L-L)			
Voltage range	304~478 Vac (L-L), 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%, - 25%			
Bypass frequency range	Selectable, $\pm 1$ Hz, $\pm 3$ Hz, $\pm 5$ Hz			
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			
<b>OUTPUT</b>				
Rated voltage	380 / 400 / 415 Vac (L-L)			
Voltage regulation	$\pm 1\%$ (full Linear Load)			
Frequency	Synchronized with utility in mains mode, 50/60 Hz $\pm 0.1\%$ 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			
<b>BATTERIES</b>				
DC voltage	$\pm 240$ VDC (Selectable, 32 - 40pcs)			
Charging current	10A max			
Charger Voltage precision	1%			
Recharge time	Long time model: depend on the capacity of battery			
<b>SYSTEM</b>				
Efficiency	95% 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			
<b>OTHERS</b>				
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	55dB @ 100% load, 52dB @ 50% load		58dB @ 100% load, 55dB @ 50% load	
Dimensions (HxWxD) (mm) (*)	130 x 440 x 660		130 x 440 x 750	
Packaged dimensions (HxWxD) (mm) (*)	204 x 532 x 800		204 x 532 x 890	
Net weight (kg) (*)	22	24	29	
Gross weight (kg) (*)	24	26	31	