

## 10 To 25kVA Split Type TCHR33 Series Rack Mounted UPS Online Double Conversion



- Input: Three Phase + N + PE
- Input frequency: 50/60Hz
- Input voltage: 380/400/415VAC (Line-Line)
- Output Voltage: 380/400/415VAC (Line-line)
- Input power factor:  $> 0.99$
- Output power factor: 1
- Rated frequency: 50/60Hz
- Output voltage accuracy:  $\pm 1.0\%$

### Technical Data

<b>Product Application</b>	TCHR33 series Rack mounted UPS is widely used in government, finance, communications, education, transportation, meteorology, radio and television, industrial and commercial taxation, health care, energy and electricity and other sectors.
<b>Range of Power / Operating Methods</b>	10- 25kVA, 3 in 3 out/ 3 in single out, online double conversion
<b>Product Features</b>	TCHR Series online rack-mounted UPS is compatible with three-phase and single-phase AC output, with rated power of 10-25 kVA, input power factor of 1, 3 U height, and the system - including rectification, inverter, static bypass, charger, battery converter, control and status display light unit - all involved with discrete device. Its control board and sensitive terminals are designed for dust proofing, for ease of use and reliability. It is ideal for modern data centers.
<b>Smart Management</b>	Its fault self-diagnosis and self-protection functions speed up and simplify maintenance. With auto-switching float chargers, it also provides RS232/SNMP monitoring ports. Its monitoring software logs power events, provides a variety of network schemes, and supports TCP/IP protocols, so as to achieve remote control and management.
<b>Stability and Reliability</b>	Based on DSP fully digital control technology, the control circuit is simplified and obtains higher flexibility and reliability. Thanks to short circuit, overload, overheating, output over-voltage protection, and current limiting technology, the system runs more stably. What's more, the power devices gain more space capacity for more reliable operation.
<b>Green and Environmental Protection</b>	Built-in EMC filter and dual surge protection make it safer for load power, high input power factor reduces grid contamination, and ROHS compliance is required to meet the high standards of Class B electromagnetic compatibility.
<b>High efficiency and Energy Reduction</b>	It provides optimal quality of power distribution and ECO mode available for reduced energy consumption, with operating efficiency up to 95% or more. Its smart fan is adjustable in speed to reduce noise and save energy consumption. High power density makes it possible to cover less space and improve operational efficiency.

**Flexibility**

Rack mounted, suitable for standard server racks, it can easily integrate with the servers. With user user-friendly interface and a 6.5-inch LCD touchscreen, it boasts abundant information, compatible with 3/3 and 3/1 systems.

Model		HR3310CL	HR3315CL	HR3320CL	HR3325CL
Capacity		10kVA	15kVA	20kVA	25kVA
Main Input	Terminal Connection	three phases + N + PE			
	Input Voltage	380/400/415VAC (Line-Line)			
	Input Frequency	50/60Hz			
	Power Factor	> 0.99			
	Current Distortion Rate	THDi < 4% (100% linear load)		THDi < 3% (100% linear load)	
	Range of Voltage	304- 478Vac (Line-Line) at full load; 304V-228Vac (Line-Line) linear derating from 100% to 75%			
	Frequency of Voltage	40-70Hz			
Battery	Voltage of Battery	±240VDC (32-44 cells adjustable)			
	Charging Power	20%* Active power (Max)			
	Charging Voltage Accuracy	1%			
Bypass	Voltage of Bypass	380V/400V/415V (Line-Line)			
	Range of Voltage	Adjustable, Default -20%+15% Upper limit: +10%, +15%, +20%, +25% Lower limit:-10%, -15%, -20%, -30%, -40%			
	Frequency Range of Bypass	50/60Hz (rated power), adjustable: ±1Hz, ±3Hz, ±5Hz			
Output	Rated Output Voltage	380/400/415VAC (Line-line)			
	Rated Frequency	50/60Hz			
	Output Power Factor	1			
	Voltage Accuracy	±1.0%			
	Output Dynamic Response	< 5% (20%-80%-20% load step 0%)			
	Dynamic Recovery Time	< 30ms (0%-100%-0% load step)			
	Output Total Harmonic Distortion	< 1% (linear load), < 5.5% (nonlinear load)		< 1.5% (linear load), < 6% (nonlinear load)	
	Inverter Overload	110% transfer to bypass after 1 hour; 125% transfer to bypass after 10 minutes; 150% transfer to bypass after 1 minute; > 150% transfer to bypass after 200 ms			
	Frequency Accuracy	0.10%			
	Range of Tracking	Adjustable, ±0.5Hz-±5Hz, Default ±3Hz			
	Speed of Tracking	Adjustable, 0.5Hz/S-±3Hz/S, Default 0.5Hz/S			
	Peak Ratio	3:1			
	Three-Phase Accuracy	120° ±0.5°			
System	Efficiency of Main Mode	> 95%		> 95.5%	

	Battery Mode	> 94.5%	> 95%
	Screen	LCD+LED+ color touchscreen	
	Protection Rating	IP20	
	Communication Interface	RS232, RS485, dry contacts, battery cold start	
	Working Environment	0-40°C (working temperature); -25°C ~70°C (storage temperature); 0-95% (no condensation)	
	Noise (dB) / m	65dB@100% load, 62dB@45% load	
	Options	SNMP cards, corporate cards, and lightning protection	SNMP cards, corporate cards, lightning protection, LBS
Size (W*D*H) (mm)		485*750*130	485*750*130
Weight (kg)		25	30