

HR33 Series Rack Online UPS

30 & 40kVA (380V/400V/415V)

The HR Series 30 & 40 kVA rack-mounted UPS, designed as a fully digital 3P in / 3P out online double-conversion system, delivers highly reliable, clean, and stable power output with outstanding performance. Featuring a high power density design, it supports both standard rack and tower installation, enabling flexible adaptation to diverse deployment scenarios.



Application

Network computer rooms and critical power equipment protection for government, telecommunications, education, transportation, industry and taxation, energy and power systems, as well.

Features

High Reliability

- ◆ Advanced DSP control technology with rapid fault protection, diagnostics, and handling capabilities.
- ◆ Independent airflow channel design safeguards precision and sensitive components.
- ◆ EMC C2 compliance.
- ◆ Dual backflow protection design featuring electronic backflow protection + dry contact backflow signal ensures safe and reliable UPS operation.

High Efficiency and Energy Savings

- ◆ AC mode efficiency up to 96.5%, effectively reducing UPS operational energy consumption.
- ◆ Output PF 1.0.
- ◆ Supports battery bank configurations (± 12 to ± 20 pcs).
- ◆ Supports parallel operation with shared battery banks.

Simple and User-Friendly

- ◆ Compatible with both rack and tower mounting.
- ◆ 3U height, 680mm depth, suitable for server cabinets with ≥ 1000 mm depth.
- ◆ 5-inch LCD touchscreen for enhanced user-friendly interaction.
- ◆ Ergonomically designed angled terminal blocks for simplified wiring.

Specification

MODEL		HR33030DL	HR33040DL
System Capacity		30kVA/30kW	40kVA/40kW
Input	Dual Input	Standard	
	Phase	3 Phase+Neutral+Ground, 380V/400V/415V(line-line)	
	Input Voltage Range	304~478Vac (line-line),full load; 228V~304Vac (line-line),load decreases linearly according to the min phase voltage	
	Rate Frequency	50/60Hz	
	Input Frequency Range	40Hz ~ 70Hz	
	Input PF	>0.99	
	Input THDi	THDi <3% (100% non-linear load)	
Bypass	Rate voltage	380/400/415Vac (line-line)	
	Rate Frequency	50/60Hz	
	Input Voltage Range	Range: -40%~+25%,Settable,default -20%~+15%	
	Bypass Frequency Range	Settable, ± 1 Hz, ± 3 Hz, ± 5 Hz	
	Bypass Overload	110%, Long time; 125%,10mins; 150%,1min; >150%,200ms	
Output	Rate Voltage	380/400/415Vac (line-line)	
	Voltage Regulation	1% for balance load; 1.5% for unbalance load	
	Rate Frequency	50/60Hz	
	Frequency Precision	0.1%	
	Output PF	1	
	Output THDu	<1% (from 0% to 100% linear load) <5% (full non-linear load)	
	Crest Factor	3:1	
	Inverter Overload	$\leq 110\%$ for 1h, $\leq 125\%$ for 10 mins, $\leq 150\%$ for 1 min, $> 150\%$ for 200 ms	
Battery	Voltage	± 192 VDC~ ± 240 VDC	
	Battery Number	32pcs (Settable: number from 24 to 40)	
	Voltage Precision	$\pm 1\%$	
	Charge Power	up to 30% *Output power	up to 20% *Output power
	Battery Cold Start	Yes	
System	Efficiency	AC Mode	96.5%
		ECO Mode	Up to 96%
		Battery Mode	99%
	Display	LCD + LED + keyboard	
	IP Class	IP 20	
	Interface	USB, RS485, CAN, Parallel ports (or for LBS), Dry contacts, Battery cold-start	
	Option	SNMP card, AS400 card, Parallel cable, LBS cable, Battery NTC	
	Temperature	0 ~ 50 °C (40~50°C derate 70% load), storage -40 ~ 70 °C	
	Relative Humidity	0 ~ 95% Non-condensing	
	Altitude	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise	
	Noise (1 meter)	<50dB @ 50% load, <60dB @ 100% load	<50dB @ 50% load, <65dB @ 100% load
	Applicable Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2	
Physical	Weight (kg)	28	30
	Dimension W*D*H (mm)	438*762*130 (3U)	