



ARIET

ARIKSO HVD3310S HVD3320S

Three-phase UPS

Tower UPS

Online double conversion



Data Centers



Construction organizations



Financial systems



Industrial enterprises

A three-phase, high-frequency UPS with online double-conversion topology designed to protect critical equipment from power outages and instability.

The cold start function allows you to turn on the power supply and power connected equipment solely from the batteries when there is no external 220V power supply. This ensures temporary operation of the equipment during a power outage.



SCENARIOS

Uninterruptible power supply for servers, data storage systems and network equipment

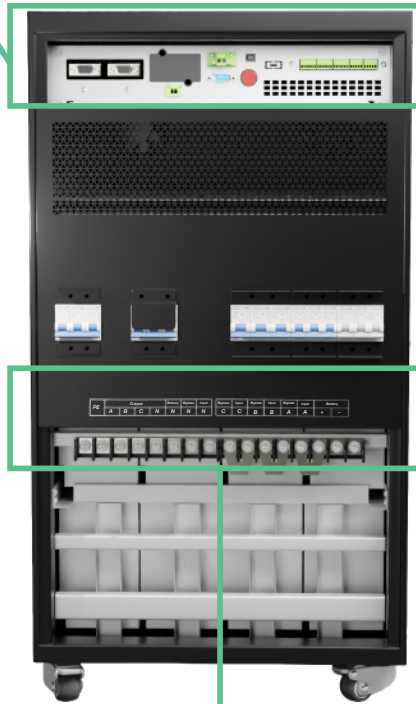
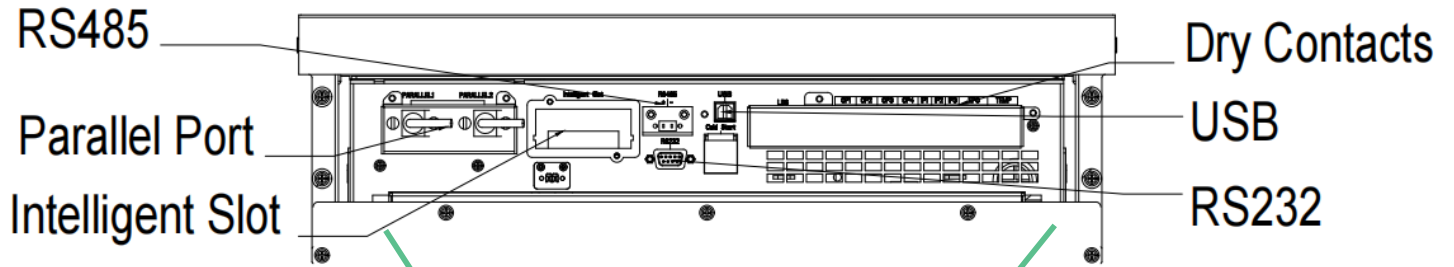
Stable power supply for critical financial systems and transaction platforms

Power supply for automation systems, controllers, servers, and monitoring systems

BENEFITS

<p>Wide input voltage range — device automatically adapts to unstable and unstable power grids.</p>	<p>High reliability and environmental adaptability — a wide range of input parameters helps maintain operation even with unstable power supplies, reducing the risk of switching to batteries.</p>
<p>High-speed DSP digital processing and N+X parallel operation for increased reliability and redundancy flexibility.</p>	<p>High efficiency — up to 96% in normal and battery mode—optimizes power consumption and heat dissipation, simplifying equipment placement and reducing cost of ownership.</p>
<p>Energy-efficient ECO mode and high input power factor (≥ 0.99 at 100% load) reduce energy loss and optimize operating costs.</p>	<p>A LCD touchscreen with IoT functionality makes monitoring and control easy, while a cold start function allows the unit to be run directly from batteries.</p>
<p>Compatibility with diesel generators allows for stable power supply even with fluctuating voltage and frequency, ensuring uninterrupted operation during extended power outages.</p>	<p>Allows flexible configuration and selection of the number of connected batteries in the battery system depending on the required autonomous operating time.</p>

Layout diagram



PE	Output				Battery	Bypass	Input	Bypass	Input	Bypass	Input	Bypass	Input	Battery	
	A	B	C	N	N	N	N		C	C	B	B	A	A	+

The **BASIC** solution is open battery cassettes

OPTIONAL -
closed battery cassettes



Technical specifications

MODEL	HVD3310S	HVD3320S
Rate Power	10 kVA	20 kVA
Main input		
Input	3P5W (3P+N+PE)	
Rate Voltage	380/400/415VAC (L-L); 220/230/240VAC (L-N)	
Rate Freq	50/60Hz	
Input PF	≥0,99	
Current distortion THDi	< 2% (100% linear load)	
Voltage range	304–478VAC (L-L) full load 304–228VAC (L-L) — power derate from 100% to 50%	
Freq. range	40–70Hz	
Battery		
Rate voltage	±240 VDC	
Model	12VDC / 7~9 Ah The basic solution is open battery cassettes, (optional - closed battery cassettes)	
Quantity	Internal BAT: 80 pcs., 12 cassettes	
Charging capacity	17.2% × Pout	8.6% × Pout
Charging accuracy	±1%	
Bypass		
Rate voltage	380/400/415VAC (L-L); 220/230/240VAC (L-N)	
Voltage range	Range: -40% ~ +25%, Settable, default -20% ~ +15%	
Frequency range	50/60 Hz, settable: ±1Hz, ±3Hz, ±5Hz	
Inverter		
Rate voltage	380/400/415VAC (L-L); 220/230/240VAC (L-N)	
Rate Freq	50/60Hz	
Output PF	1	
Voltage accuracy	±1,0%	
Output THDu	<1% (linear load); <5% (non-linear load)	
Overload	110% — 1 hour; 125% — 10 mins; 150% — 1 min; >150% — 200 ms	
Frequency accuracy	0,1%	
Synchronize window	Settable ±0,5Hz ~ ±5Hz; default ±3Hz	
Slew rate	Settable 0,5Hz/s ~ 3 Hz/s; default 0,5Hz/s	
Crest factor	3:1	
Phase Accuracy	120° ±0,5°	
System		
Efficiency	up to 97%	
Display	LED + 7" touch LCD	
Certification- Safety	IEC62040-1, IEC60950-1	
Certification- EMS	IEC62040-2; IEC61000-4-2 (ESD); IEC61000-4-3 (RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)	
Configuration	USB, RS232, RS485, Dry contact, Air filter, Cold start	
Option	SNMP-card, AS400-card, Parallel kit	
Environment	0~40°C (operation) ; -25°C~70°C (storage) ; 0~95% (Humidity, non-condensing)	
Physical parameters		
Dimension (W*D*H) mm	500*864*922	
Weight(kg)	68	