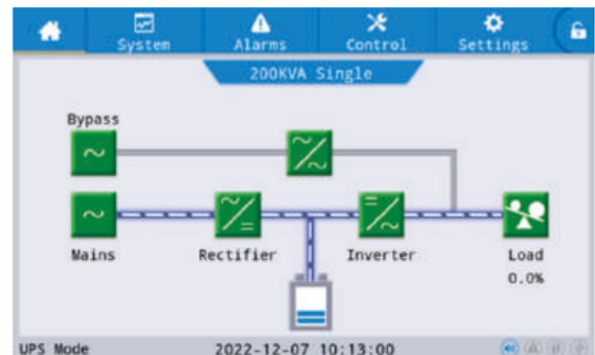


## 160-200KVA (3:3) Transformer-based



This series is an online dual-conversion industrial UPS based on this platform, which is designed based on our years of experience in the application of power electronic products in highways, tunneling, manufacturing and electric power etc. This series of products adopts IGBT rectifier + built-in isolation transformer scheme, which has superior electrical safety performance and high system availability, and can provide stable and reliable power supply guarantee for the industries of finance, transportation, telecommunication, and manufacturing.



7" Touch Screen

## Features

- Online Double Conversion Topology, accept Dual-Mains Input
- DSP Technology Guarantees High Reliability
- Input and output are completely isolated for great security
- True Inbuilt Galvanic Isolation Transformer Design, DZn0 winding transformer compatible with unbalanced load
- Strong mixed load capacity and high overload capacity
- Redundant Fan Design and Independent Ventilation Enhances Durable Operation Under Harsh Environment
- intelligent self-diagnosing function, superior failure protection, large capability of history records storage
- High efficiency even at light loads
- Adjustable Battery Numbers
- Intelligent Battery Management to Prolong Battery Life Cycle
- N+X Redundancy Parallel Operation with up to 6 Units (Option)
- Variety of Communication Options Available
- EPO & ECO Mode Operation
- Generator compatible
- High MTBF (> 200,000 h)
- Low MTTR (< 0.5 h)

## Spectifications

MODEL	HD89160	HD89200
Capacity	160 kVA /144 kW	200 kVA /180 kW
<b>INPUT</b>		
Input wiring	Three-phase five-wire (3Φ + N + PE)	
Rated voltage	380 / 400 / 415 Vac	
Voltage range	304 ~ 346V (derating 10%), 346 ~ 456V (full load)	
Rated frequency	50 / 60Hz	
Frequency range	(50 / 60) ±5Hz	
Power factor	≥0.99	
THDi	≤3%	
Delayed start of rectifier	10s (1~300 settable)	
Bypass voltage range	±20% (settable)	
<b>OUTPUT</b>		
Output wiring	Three-phase five-wire (3Φ + N + PE)	
Rated voltage	380 / 400 / 415Vac	
Output voltage regulation	±1%	
Output frequency regulation	50 / 60Hz ±0.1% in battery mode	
Waveform	Pure sine wave	
Power factor	0.9	
THDv	≤2% (linear load), ≤5% (non-linear load)	
Crest factor	3:1	
Overload	105%~110% for 60 min, 110%~125% for 10 min, 125%~150% for 1 min, 150%~200% for 200ms	
<b>BATTERIES</b>		
DC voltage	Lead acid battery: 600Vdc. Lithium iron phosphate battery: 614.4Vdc	
Number of batteries	Lead acid battery: 12Vx50pcs (48~50 pcs settable)	
	Lead acid battery: 2Vx300pcs (288~300 pcs settable)	
	Lithium iron phosphate battery: 3.2Vx192pcs (192/208 pcs settable)	
Charging current	Charging rate (settable) × battery capacity (settable) × number of battery groups (settable)	
<b>SYSTEM</b>		
Efficiency	Line mode ≥93%,	
	ECO mode ≥97%	
Max. number of parallel connections	6	
Protections	Short-circuit, overload, overtemperature, overvoltage, undervoltage, battery low voltage and fan failure	
Communications	Standard configuration: RS232, RS485, RJ45, USB, dry contacts	
	Optional configuration: SNMP card, temperature compensation	
Display	7 inches LCD touch screen	
<b>OTHERS</b>		
Operating temperature	0~40°C	
Storage temperature	-25°C~55°C (without battery)	
Relative humidity	0%~95% (non-condensing)	
Altitude	≤1000m. Above 1000m, derating 1% for each additional 100m	
IP rating	IP20	
Noise level at 1m	<65dB	
Dimensions (W×D×H)(mm)	800x860x1700	1210x860x1950
Net weight (kg)	790	1135

- All specifications are subject to change without notice
- Custom-made specifications are acceptable