

HW890

160 kVA ~ 500 kVA

PF 0.9

IGBT Rectifier

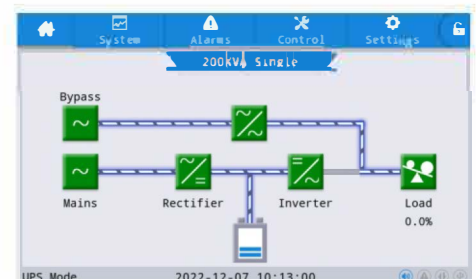
Online Transformer Base UPS



HW890 series is an on-line dual-conversion industrial UPS based on HW890 platform, which is designed based on our years of experience in the application of power electronic products in highways, tunneling, industrial, manufacturing and electric power etc. This series of products adopts IGBT rectifier+ built-in isolation transformer inverter 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 medical & health care application for MRI machines, CT scanners and X-ray machines.

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)
- Standards Safety IEC 62040-1, EMC IEC 62040-2, Classification according to IEC 62040-3 (VFI -55-111)



7" Touch Screen

Specifications

MODEL	HW89160	HW89200	HW89250	HW89300	HW89400	HW89500
Capacity	160 kVA / 144 kW	200 kVA / 180 kW	250 kVA / 225 kW	300 kVA / 270 kW	400 kVA / 360 kW	500 kVA / 450 kW
INPUT						
Input wiring	Three-phase five-wire (3 Φ + N + PE)					
Rated voltage	380 / 400 / 415 Vac					
Voltage range	304 ~ 346 V (derating 10%), 346 ~ 456 V (full load)					
Rated frequency	50 / 60 Hz					
Frequency range	(50 / 60) \pm 5 Hz					
Power factor	\geq 0.99					
Total harmonic distortion (THDi)	\leq 3%					
Delayed start of rectifier	10 s (1 ~ 300 settable)					
Bypass voltage range	\pm 20% (settable)					
OUTPUT						
Output wiring	Three-phase five-wire (3 Φ + N + PE)					
Rated voltage	380 / 400 / 415 Vac					
Output voltage regulation	\pm 1%					
Output frequency regulation	50 / 60 Hz \pm 0.1% in battery mode					
Waveform	Sinusoidal					
Power factor	0.9					
Voltage distortion (THDv)	\leq 2% (linear load), \leq 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					
BATTERIES						
DC voltage	Lead acid battery: 600 Vdc Lithium iron phosphate battery: 614.4 Vdc					
Number of batteries	Lead acid battery: 12 V \times 50 pcs (48~52 pcs settable) Lead acid battery: 2 V \times 300 pcs (288~312 pcs settable) Lithium iron phosphate battery: 3.2 V \times 192 pcs (192/208 pcs settable)					
Charging current	Charging rate (settable) \times battery capacity (settable) \times number of battery groups (settable)					
SYSTEM						
Efficiency	Line mode \geq 94%, ECO mode \geq 98%					
Max. number of parallel connections	6					
Protections	Short-circuit, overload, overtemperature, overvoltage, undervoltage, battery low voltage and fan failure					
Communications	Standard configuration: RS232, RS485, dry contacts Optional configuration: SNMP card, temperature compensation, SMS alarms					
Display	7 inches LCD touch screen					
OTHERS						
Operating temperature	0 ~ 40°C					
Storage temperature	- 25°C ~ 55°C (without battery)					
Relative humidity	0% ~ 95% (non-condensing)					
Altitude	\leq 1000 m. Above 1000 m, derating 1% for each additional 100 m					
IP rating	IP 20					
Noise level at 1 m	$<$ 65 dB			$<$ 70 dB		
Dimensions (W \times D \times H) (mm)	800 \times 860 \times 1700	1210 \times 860 \times 1950			2380 \times 860 \times 1950	
Packaged dimensions (W \times D \times H) (mm)	900 \times 1000 \times 1950	1300 \times 1000 \times 2200			1300 \times 1000 \times 2200 (\times 2)	
Net weight (kg)	790	1135	1275	1355	2090	2300
Gross weight (kg)	840	1200	1340	1420	2200	2410

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.
- This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems.
- For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.