

HW890 10KVA ~ 120KVA(3:3) PF 0.9



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 inverter+ 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 with full DSP control
- IGBT inverter with output isolation transformer
- 100% unbalance load capability
- Output power factor 0.9
- Generator compatible
- Support battery cold start and auto-restart when mains power is restored
- ECO mode operation for energy saving
- Superior protection
- 7 inches LCD touch screen, friendly human & machine interface
- Front access makes maintenance and replacement easy (40 - 120KVA)
- Intelligent self-diagnosing function, all kinds of failure protection, large capability of history records storage
- High MTBF (>200,000h)
- Low MTTR (<0.5h)
- Standard emergency power off (EPO)
- Standard RS232, RS485, dry contacts communication port
- Optional SNMP communication port
- Optional N+X redundancy parallel up to 6 units
- Optional input filter to improve input power factor
- Standards Safety IEC 62040-1, EMC IEC 62040- 2, Classification according to IEC 62040-3 (VFI -55-111)

Specifications

Model	HW8910	HW8915	HW8920	HW8930	HW8940	HW8960	HW8980	HW89100	HW89120
Capacity	10kVA 9kW	15kVA 13.5kW	20kVA 18kW	30kVA 27kW	40kVA 36kW	60kVA 54kW	80kVA 72kW	100kVA 90kW	120kVA 108kW
INPUT									
Rated voltage	380 V / 400 V/ 415 Vac								
Voltage range	285 - 475 VAC								
Rated frequency	50/60 Hz								
Frequency range	50 60 Hz ±5 Hz								
Power factor	≥ 0.95 (with filter)								
Bypass voltage range	±20% (settable)								
Delayed start of rectifier	1 - 300 s (settable via display panel)								
ECO voltage range	±10% (settable)								
OUTPUT									
Voltage	380 V/ 400 V/ 415 Vac								
Voltage regulation	±1%								
Frequency	Synchronized with utility in mains mode; 50/ 60 Hz ±0.1 % in battery mode								
Waveform	Sinusoidal								
Power factor	0.9								
Crest factor	3:1								
Total harmonic distortion (THDV)	≤ 1% (linear load); ≤ 5% (non-linear load)								
Transfer time	AC mode to battery mode: 0 ms Inverter mode to bypass mode: 0 ms Inverter mode to ECO mode: 5 - 10 ms								
Inverter overload capability	105%: long time running; 105% - 110%: transfer to bypass in 1 h 110% - 125%: transfer to bypass in 10 mins 125% - 150%: transfer to bypass in 1 mins 150% - 200%: transfer to bypass in 200 ms > 200%: transfer to bypass in 100 ms								
Slight adjustment of inverter output voltage	± 5 V								
BATTERIES									
DC Voltage	12 V x configured battery number (settable via display panel)								
Number of battery	28 - 32 pcs (settable)								
Charging current	10 A default / Settable								
Charging	Three-stage charging, auto switch floating / equalizing charge								
Battery state display	Display battery backup time, battery remaining capacity								
Battery selftest	Settable periodic self-test; manually configurable test time and voltage								
SYSTEM									
Efficiency	In line mode: ≥ 95%; ECO mode: ≥ 98%								
Max. Parallel numbers	6								
Protections	Short-circuit - overload - overvoltage - undervoltage - low battery - overtemperature - fan fault								
IP rating	IP20								
EMI	EN62040-2								
EMS	IEC61000-4-2(ESD) IEC61000-4-3(RS) IEC61000-4-4(EFT) IEC61000-4-5(surge)								
COMMUNICATIONS									
RS232/RS485/drycontacts(standard)	Supports Windows• 98/ 2000 / 2003/ XP / Vista / 2008 / Windows• 7/8/10								
SNMP (optional)	Power management from SNMP manager and web browser								
OTHERS									
Humidity	0-95% RH@ 0~40℃(non-condensing)								
Noise level	55 dB					60 dB		65 dB	
Dimensions (W x D x H)(mm)	400 x 800 x 1100					600x700x1500		700 x 800 x 1700	
Packaged dimensions (W x D x H)(mm)	490 x 890 x 1170					690x790x1570		790 x 890 x 1770	
Net/ Gross weight (kg)	158/200	165/207	175/217	210 /252	260/302	460/480	590 / 620	630 / 660	690 / 720

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