

HMR+ Series

3-phase in/3-phase out
Industrial Modular UPS
20 – 200 kVA



Product

HMR+ series UPS is 3-phase On-line UPS, in which the advanced 3-level inverter & latest DSP-controlled technology are employed. Modular N+X parallel redundancy design ensures the normal operation all the time even though one of power module is in fault. And hot-swappable feature ensure UPS normal operations to the load without interruption during maintenance and replacement with low MTTR (Mean Time To Repair).

Application

Telecommunication control room, IDC center, Computer system, and high precision instruments, etc.

Features

- **High Safety**
 - By employing TI's DSP control, the processing speed and fault protection become much better.
 - By using advanced 3-level inverter technology, it has good output wave form and high over-all efficiency.
 - With cold-start function, the UPS can be started up without AC input.
 - Because the input power factor is up to 0.999, the energy efficiency can be improved a lots, the grid load becomes lower, and the cost of electricity distribution can be reduced.
 - Intelligent battery management: it is automatically converting boost or float charge, temperate compensate to avoid over or less charge; adjusted the cut off voltage of discharge according to load capacity, greatly extend life of the battery pack.

- With intelligent fan speed control, the fan speed is depended on the load capacity to extend the life of fan.
- Under ECO energy-saving mode, the efficiency of UPS system can be more than 99%, suitable for the area of good AC quality.
- And it can quickly switch back to inverter mode within 5ms.
- Manual bypass design ensures uninterrupted operations during maintenance and the system becomes more reliable.

- **Easy operation**

- Each of power modular is independent and no the problem of compatibility. It meets the demand of hot-swappable feature.
- 7" touch-screen LCD provides UPS operating data and records of historical events.

- **Multiple Communication Interface**

- Inbuilt RS232, RS485, SNMP and multiple input and output dry contact ports.
- Online double conversion technology
- Hot-swappable modules
- Flexible scalability
- Low Mean Time to Repair (MTTR)
- 7" LCD Touchscreen for easy management
- High efficiency, reduce energy losses
- Intelligent speed control and intelligent charger
- Manual bypass design and ECO mode
- Advance UPS design with IGBT and DSP Processor
- Cold start function
- Reliable Communication

Model	HMR+ 124K	HMR+ 204K
Capacity	120KVA/108KW	200KVA/180KW
Input		
Phase	3Φ4W +G	
Voltage Range	380 Vac +25% (or +20% or +15% selectable)	
Frequency Range	50/60 Hz +10% (or 5% selectable)	
Bypass Synchronization	50/60 Hz +5% (or t10% selectable)	
Bypass Voltage Range	+15% (or +10% or +20% selectable) /-20% (or -15% or 30% selectable)	
Input Power Factor	≥ 0.99	
Total Harmonic Distortion (THDi)	Linear Load(full load) ≤ 3% : Non-linear Load(full load) ≤ 5%	
Battery Voltage	± 360Vdc	
Output		
Phase	3Φ4W+G	
Voltage	380 Vac ± 1%	
Frequency (Hz)	Synchronized (AC mode) : 50/60Hz ± 0.2% (Battery mode)	
Total Harmonic Distortion (THDv)	Linear load ≤ 3% + Non-linear load ≤ 6%	
Bypass Inverter Transfer Time	Synchronized <1ms : Asynchronous <20ms	
Efficiency	AC mode ≥94% : Battery mode ≥97%	
Overload Capacity	10 minutes for 125%	
Current Sharing	≤ 5%	
DC Component	<100mV	
Unbalance load Capacity	100% unbalance load	
Environment		
Audible Noise (dB)	<63dB (at 1M)	
Operating Temperature(°C)	0~40°C	
Humidity	<95% (no-condensing)	
Altitude	< 2000M above sea level	
Other		
Display	7 inch touch-screen LCD, LED	
Communication Interface	Dry contact , RS232/RS485 and SNMP	
Dimension(W*D*H)	600*900*1400	600*900*2000
Weight (kgs)	N.W: 345, G.W: 380	N.W: 530, G.W: 570