

# Master Plus HIP

## 100-600kVA

Three-phase input

Three-phase output

### Uninterruptible Power Supply

#### Main Features

- On-line double conversion
- Static and manual bypass
- Input power factor  $> 0.99$
- Output power factor 0.9
- Input current THDi  $< 3\%$
- Flexible solutions
- Galvanic isolation
- Parallel/redundant operation
- LCD screen
- Superior battery management
- 50 or 60Hz operation
- Wide input voltage range
- Programmable output
- Various battery options
- RS-232/USB and contact interface
- SNMP communication options
- Free software



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SPECIFICATIONS

| MODEL                                   | MP HIP<br>100                                                                       | MP HIP<br>120 | MP HIP<br>160     | MP HIP<br>200 | MP HIP<br>250 | MP HIP<br>300  | MP HIP<br>400 | MP HIP<br>500      |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------|-------------------|---------------|---------------|----------------|---------------|--------------------|
| Rated power (kVA)                       | 100                                                                                 | 120           | 160               | 200           | 250           | 300            | 400           | 500                |
| Power (W)                               | 90                                                                                  | 108           | 144               | 180           | 225           | 270            | 360           | 450                |
| INPUT                                   |                                                                                     |               |                   |               |               |                |               |                    |
| Nominal voltage                         | 380 – 400 – 415 Vac Three-phase                                                     |               |                   |               |               |                |               |                    |
| Voltage tolerance                       | 400 V +20% / -25%                                                                   |               |                   |               |               |                |               |                    |
| Frequency                               | 45 – 65 Hz                                                                          |               |                   |               |               |                |               |                    |
| Power factor                            | > 0.99                                                                              |               |                   |               |               |                |               |                    |
| Harmonic current distortion             | < 3% THDi                                                                           |               |                   |               |               |                |               |                    |
| BATTERIES                               |                                                                                     |               |                   |               |               |                |               |                    |
| Type                                    | Open lead acid and VRLA AGM / GEL;NiCd                                              |               |                   |               |               |                |               |                    |
| OUTPUT                                  |                                                                                     |               |                   |               |               |                |               |                    |
| Nominal voltage                         | 380 – 400 – 415 Vac Three-phase + N                                                 |               |                   |               |               |                |               |                    |
| Static stability                        | ±1%                                                                                 |               |                   |               |               |                |               |                    |
| Dynamic stability                       | ±5% in 10ms                                                                         |               |                   |               |               |                |               |                    |
| Voltage distortion                      | <1% with linear load / <3% with non-linear load                                     |               |                   |               |               |                |               |                    |
| Crest factor                            | 3:1                                                                                 |               |                   |               |               |                |               |                    |
| Frequency                               | 50 or 60 Hz (selectable)                                                            |               |                   |               |               |                |               |                    |
| Overload                                | 110% for 1 minute; 125% for 10 seconds; 150% for 1 second                           |               |                   |               |               |                |               |                    |
| ADDITIONAL INFO                         |                                                                                     |               |                   |               |               |                |               |                    |
| Weight                                  | 656                                                                                 | 700           | 800               | 910           | 1000          | 1400           | 1700          | 2100               |
| Dimensions (hwd) (mm)                   | 1900 x 800 x 850                                                                    |               | 1900 x 1000 x 850 |               |               | 1900x1500x1000 |               | 1900x2100<br>x1000 |
| Remote signals                          | volt-free contacts (configurable)                                                   |               |                   |               |               |                |               |                    |
| Communication                           | Double RS232 + remote contacts + 2 slots for communications interface               |               |                   |               |               |                |               |                    |
| Ambient temperature                     | 0°C / +40°C                                                                         |               |                   |               |               |                |               |                    |
| Relative humidity                       | <95% non-condensing                                                                 |               |                   |               |               |                |               |                    |
| Colour                                  | Dark grey RAL 7016                                                                  |               |                   |               |               |                |               |                    |
| Noise level at 1m (dBA)                 | 63 - 68                                                                             |               |                   |               |               | 70 - 72        |               | 70                 |
| Protection level                        | IP20                                                                                |               |                   |               |               |                |               |                    |
| Regulations                             | Safety: EN 62040-1-1 (directive 2006/95/EC); EMC: EN62040-2 (directive 2004/108/EC) |               |                   |               |               |                |               |                    |
| Classification according to IEC 62040-3 | (Voltage Frequency Independent) VFI – SS -111                                       |               |                   |               |               |                |               |                    |

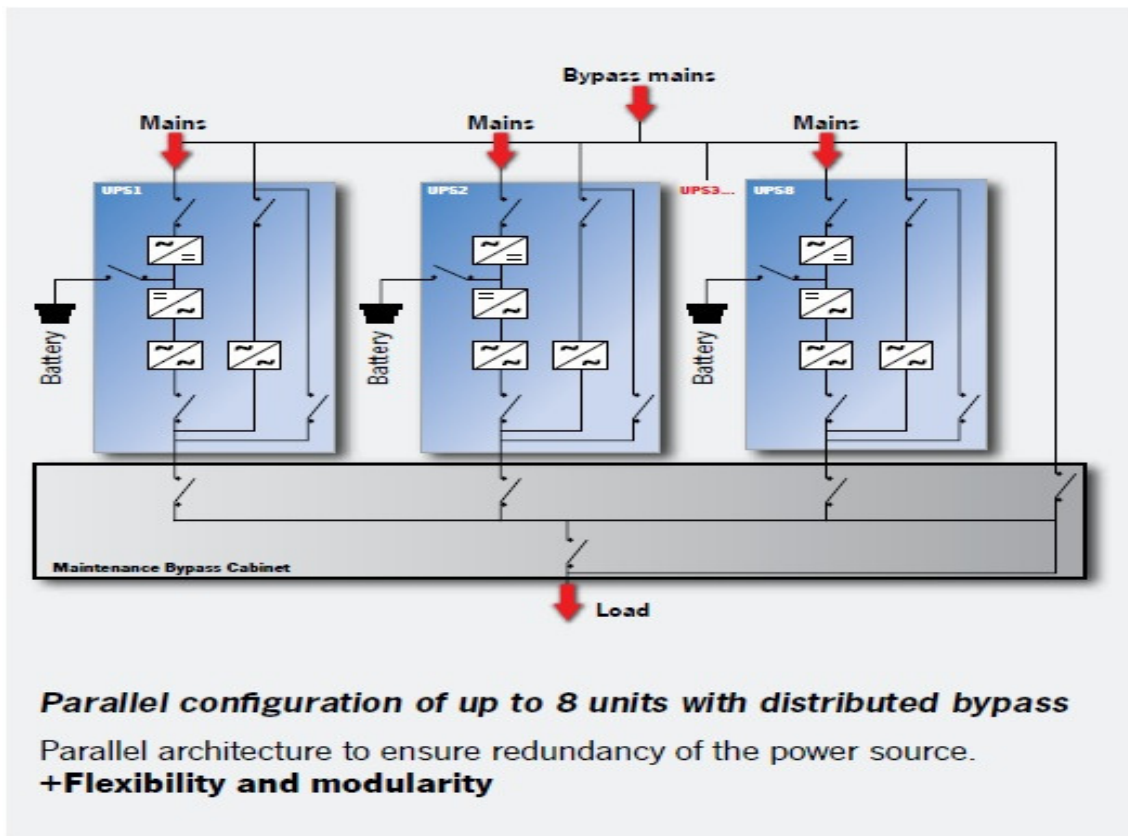
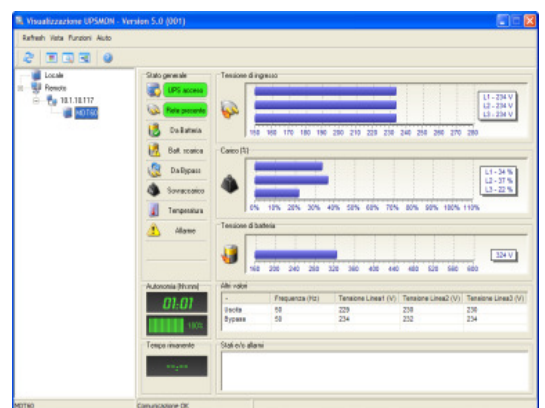
Specifications are subject to change without any prior notice.

## Optional Extras

- SNMP Network Interface Card
- Relay Card (Volt-free contacts)
- Parallel Redundant Operation
- Separate Bypass Input Supply
- Galvanic Isolation Transformers
- External Manual Bypass Switch
- Extended Battery Back-Up Times
- Service and Maintenance Plans



Left: Remote Alarm Panel  
Right: Screenshot of software.  
Below: Parallel UPS diagram



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