The best protection with a cost-effective approach

- Online double conversion mode with an output power factor of 0.9.
- Best-in-class online efficiency.
- Versatile to operate in different electrical environments.
- Standard design with dual input mains to manage independent power sources.
- Standard design equipped with input, output and auxiliary mains switches.
- Internal manual bypass for easy maintenance with no power interruption.

Easy to integrate and user-friendly

- Compact, lightweight and easy to install.
- Low acoustic noise level.
- Modern aesthetics combined with ergonomics.
- User-friendly multilingual interface with a graphic LCD display.

Extremely reliable, robust and durable

- Completely designed and manufactured in Europe.
- Certified seismic resistance.

Tailor-made - as standard

- Easy configurable for retrofit in existing installations.
- Catalogue base flexibility to meet specific needs.
- Fast delivery time for a fully personalized solution.

Native digital solution

- Ready for integration in LAN and Industry 4.0 ecosystem.
- IoT ready and remote cloud services.
- Multi processor intelligent product architecture.
- Product identification and configuration using standard QR codes.

Certifications

- The MASTERS BC+ series is certified by TÜV SÜD with regard to product safety (EN 62040-1).
- Seismic resistant: The MASTERS BC+ units have successfully passed severe tests to verify resistance to withstand Zone 4 seismic events.

Advantages

- 95% Efficiency
- PF 0.9
- RoHS Compliant
- Augmented Reality technology
- Guided workflow on your smartphone
- Verification and validation by the Socomec Service Center

A tutoring app for a simplified installation

- LINK-UPS, remote monitoring service which connects your UPS to your Critical Power specialist 24/7.
- Training
- Maintenance packages
- Preventive maintenance visits
- Commissioning
- On-site repairs
- 24-hour call out and rapid remote automatic shutdown
- External battery cabinet with normal and alternative backup power technologies:
  - High capacity battery charger.
  - Alternative backup power technologies:
    - High capacity battery charger.
    - External battery cabinet with normal and remote automatic shutdown.
    - External battery cabinet with normal and remote automatic shutdown.

Commercial buildings

- Security control
- Payment systems
- Emergency services
- IT networking
- Building automation

Smart manufacturing

- Process control systems
- Cloud service access

The solution for

- Emergency services
- Payment systems
- Security control
- Building automation
- IT networking
- Process control systems
- Cloud service access

Three-phase UPS

- MASTERS BC+ from 100 to 160 kVA
- Native digital solution
- Tailor-made - as standard
- Extremely reliable, robust and durable
- The best protection with a cost-effective approach
- Easy to integrate and user-friendly
System features
- Dual input mains.
- Internal maintenance bypass switch.
- Input mains switch breaker.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.
- Power walk-in ramp for excellent compliance with generators.

Standard communication features
- Graphical LCD multilingual display.
- 2 slots for communication options.
- USB port to download log file.
- Ethernet port for service purposes.

System options
- External battery cabinet with normal or long-life VRLA batteries.
- High capacity battery charger.
- Alternative backup power technologies:
  - Nicd batteries
  - Li-Ion batteries
  - Li-Ion capacitors
- 3-phase input without neutral.
- Internal backfeed isolation device.
- Common mains coupling bars.
- TN-C grounding system.
- ACS synchronisation system.
- IP21 degree of protection.
- Top cabling kit.
- Top ventilation kit.
- Bypass redundant cooling.
- Seismic fixing kit.

Technical data

<table>
<thead>
<tr>
<th>Feature</th>
<th>MASTERYS BC+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sn [kVA]</td>
<td>100</td>
</tr>
<tr>
<td>Ph [kW]</td>
<td>90</td>
</tr>
<tr>
<td>INPUT</td>
<td></td>
</tr>
<tr>
<td>Rated voltage</td>
<td>400 V 3ph+N (3 wire input also available on demand)</td>
</tr>
<tr>
<td>Voltage tolerance</td>
<td>240 V to 430 V</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>50/60 Hz ± 10%</td>
</tr>
<tr>
<td>OUTPUT</td>
<td></td>
</tr>
<tr>
<td>Power factor</td>
<td>0.9 (according to IEC/EN 62040-3)</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>3ph + N: 400 V (can be configured 380/415 V)</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Frequency tolerance</td>
<td>± 2% (configurable for GenSet compatibility)</td>
</tr>
<tr>
<td>Total output voltage distortion</td>
<td>&lt; 1%</td>
</tr>
<tr>
<td>Overload</td>
<td>125% for 10 minutes, 150% for 1 minute</td>
</tr>
<tr>
<td>Crest factor</td>
<td>3:1</td>
</tr>
<tr>
<td>EFFICIENCY</td>
<td></td>
</tr>
<tr>
<td>Double conversion mode</td>
<td>up to 98%</td>
</tr>
<tr>
<td>Always on mode</td>
<td>up to 99%</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td></td>
</tr>
<tr>
<td>Operating ambient temperature</td>
<td>from 0 °C to +35 °C (from 15 °C to 25 °C for maximum battery life)</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>0% - 95% without condensation</td>
</tr>
<tr>
<td>Maximum altitude</td>
<td>1000 m without derating (max. 3000 m)</td>
</tr>
<tr>
<td>Acoustic level at 1 m (ISO 3746)</td>
<td>&lt; 60 dBA</td>
</tr>
<tr>
<td>UPS CABINET</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>W 600 mm</td>
</tr>
<tr>
<td></td>
<td>D 855 mm</td>
</tr>
<tr>
<td></td>
<td>H 1400 mm</td>
</tr>
<tr>
<td></td>
<td>1930 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>220 kg</td>
</tr>
<tr>
<td></td>
<td>232 kg</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP20</td>
</tr>
<tr>
<td>Colour</td>
<td>Metalised Grey E150HR</td>
</tr>
</tbody>
</table>

STANDARDS
- Safety EMC: IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2
- Performance: IEC/EN 62040-3, AS 62040.3
- Environmental: full compliance with the RoHS EU directive
- Seismic compliance: on demand, in accordance with the Uniform Building Code UBC-1997 Zone 4
- Product declaration: CE, RCM (E2376)

Communication options
- Dry-contact, RS232/485 interfaces.
- MODBUS RTU.
- MODBUS TCP.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP, ethernet interface for UPS monitoring and remote automatic shutdown.
- Ethernet gateway for cloud sevices.

Remote monitoring service
- LINK-UPS, remote monitoring service which connects your UPS to your Critical Power specialist 24/7.

Our dedicated Expert Services for UPS
We offer services to ensure your UPS highest availability:
- Commissioning
- On-site intervention
- Preventive maintenance visits
- 24-hour call out and rapid on-site repairs
- Maintenance packages
- Training

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