



MASTERYS IP

Reliable protection for industrial processes
from 10 to 40 kVA

Single-phase and
three-phase UPS



The solution for

- > Industrial processes
- > Transportation
- > Infrastructure
- > Service sector
- > Hospitals

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



www.socomec.com/services

Designed for demanding environments

- Designed to protect industrial processes.
- A compact solution with isolation transformer integrated into the UPS cabinet.
- Full metallic enclosure (IP21 cabinet).

Tailored to your needs

- Easy to install and to handle (fitted with castors).
- Fitted with dry contact remote signalling interface.
- Protection against backfeed on the upstream network (internal or external backfeed).
- Separate rectifier and bypass mains.

Easy integration into industrial networks

- Input power factor > 0.99 and input current harmonic distortion < 3% thanks to IGBT rectifier.
- Compatible with Open Vented Lead Acid, Valve Regulated Lead Acid (VRLA) and Nickel Cadmium batteries.
- Color graphical display with up to 30 languages embedded, including simplified and traditional Chinese.
- Flexible communication boards for every industrial communication need: dry contacts, MODBUS, PROFIBUS, etc.
- Fully compatible with generator sets.

Standard electrical features

- Dual input mains.
- Internal manual bypass.
- Backfeed protection: detection circuit.

Electrical options

- External maintenance bypass.
- External battery cabinet.
- Parallel kit.
- ACS synchronization system.
- Permanent isolation controller (CPI).
- Power share.

Standard communication features

- Multilanguage display including simplified and traditional chinese.
- 2 slots for communication options.
- MODBUS RTU.
- Dry contact interface (configurable voltage-free contacts).
- Ethernet interface for UPS monitoring via WEB pages.

Communication options

- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485 or MODBUS TCP.
- PROFIBUS / PROFINET gateway.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- REMOTE VIEW PRO supervision software.
- IoT gateway for Socomec cloud services and SOLIVE UPS mobile app.

Remote monitoring and cloud services

- LINK-UPS: Socomec 24/7 remote monitoring service connecting your installation to the nearest Socomec Service Centre.
- SOLIVE UPS: mobile app enabling the monitoring of the UPS systems from a smartphone.

Technical data

MASTERYS IP					
Sn [kVA]	10	15	20	30	40
Pn [kW]	8	12	16	24	32
Input/output 3/1	•	•	•	•	-
Input/output 3/3	•	•	•	•	•
Parallel configuration ⁽¹⁾	up to 6 units				
INPUT					
Rated voltage	400 V ⁽²⁾				
Voltage tolerance	± 20% (up to -35% @ 70% of rated power)				
Rated frequency	50/60 Hz ± 10%				
Power factor / THDI ⁽³⁾	0.99 / < 3%				
OUTPUT					
Rated voltage	1ph + N: 230 V (can be configured 220/240 V) 3ph + N: 400 V (380 / 415 V configurable) ⁽⁴⁾				
Voltage tolerance	±1 %				
Rated frequency	50/60 Hz				
Frequency tolerance	± 2% (configurable from 1% to 8%)				
Overload	125% for 10 minutes, 150% for 1 minute				
Crest factor	3:1 (complying with IEC 62040-3)				
BYPASS					
Rated voltage	1ph + N: 230 V, 3ph + N: 400 V				
Voltage tolerance	± 15% (configurable from 10% to 20% with generating set)				
Rated frequency	50/60 Hz				
Frequency tolerance	± 2% (configurable from 1% to 8% with generating set)				
EFFICIENCY					
Online mode @ 100% of load	up to 93%				
ENVIRONMENT					
Operating ambient temperature	from 0 °C to + 40 °C (from 15 °C to 25 °C for maximum battery life)				
Relative humidity	0% - 95% without condensation				
Maximum altitude	1000 m without derating (max. 3000 m)				
Acoustic level at 1 m (ISO 3746)	< 55 dB				
UPS CABINET					
Dimensions W x D x H	444 x 795 x 1400 mm				
Weight (3/1 / 3/3)	200/205 kg	210/215 kg	255/285 kg	- / 305 kg	- / 340 kg
Degree of protection	IP21				
STANDARDS					
Safety	IEC/EN 62040-1-1, AS 62040.1.1, AS 62040.1.2				
EMC	IEC/EN 62040-2, AS 62040.2				
Performance	IEC/EN 62040-3, AS 62040.3				
Product declaration	CE, RCM (E2376)				

(1) With transformer on input/bypass side.

(2) Three-phase 220 - 230 - 240 V from 15 to 30 kVA on demand.

(3) For source THDV < 2% and nominal load.

(4) Three-phase 220-230-240 V from 15 to 40 kVA.

Internal architecture

