

# MASTERYS EM+

Reliable central power supply system  
from 10 to 120 kVA



## The solution for

- > Airports
- > Railways and bus stations
- > Schools and universities
- > Hospitals
- > Shopping centres
- > Cinemas and theatres
- > Museums
- > Public buildings
- > Office buildings
- > Hotels

## Compliance with standards

- > EN 50171

## Certifications and attestations



## 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](http://www.socomec.com/services)

The EMergency CPSS range (Emergency Central Power Supply System) has been designed to answer your needs in terms of power supply for your safety system. All our Emergency products are compliant with standard EN 50171.

### EN 50171 compliant

- IP20 enclosure compliant with EN 60598-1.
- Fast battery charge: 80% in 12 hours.
- Battery protection against damage due to a polarity inversion.
- Battery protection against deep discharge.
- Long-life battery with 10-year life expectancy.
- Designed to withstand 120% of the nominal charge during the entire back-up period.

### Easy and error-free installation

- All-in-one solution: for internal batteries configurations (10/15/20 kVA), the UPS and batteries are in the same cabinet (only 1 cabinet to connect).
- Simplified connections: the connections are carried out in the factory and the batteries are pre-tested and ready to work.

### Simplified maintenance

- Innovative maintenance thanks to brick swap architecture that limits the MTTR - the repairs are 5 times faster than legacy UPS.
- Totally front access maintenance for quick and easy repairs.
- Standard Over Voltage Control Device (OVCD) protects the UPS and the load from dangerous mains peak-voltages.

### Ready to be connected

- IoT ready device for access to connected services.
- Real time UPS monitoring thanks to the SoLive App:
  - current UPS status,
  - alarm history,
  - battery level,
  - UPS temperature,
  - battery back-up time in minutes.
- SoLink 24/7: remote monitoring connected service is a permanent connection between the CPSS and the nearest Socomec Service Centre.

## System features

- Dual input mains.
- Internal maintenance bypass switch.
- Input mains switch breaker.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.
- Full compatibility with generators.
- Long-life battery.

## Standard communication features

- 3.5" multilanguage graphic display.
- 2 slots for communication options.
- USB port for downloading UPS report and log file.
- Ethernet port for service purposes.

## Communication option

- Dry-contact interface (according to EN 50171).
- MODBUS RTU RS485 or TCP.
- PROFIBUS 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 touch-screen panel.

## System options

- Internal backfeed isolation device.
- Common mains coupling bars.
- ACS synchronization system.
- IP21 degree of protection.

## Remote monitoring and cloud services

- SoLink: 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 EM+								
Sn (kVA)	10	15	20	25	30	40	80	120
Pn (kW)	10	15	20	25	27	36	72	108
Pn according to EN 50171 (kW)	10	15	20	25	27	36	72	108
Inverter max withstand power EN 50171 (kW)	12	18	24	30	32.4	43.2	86.4	129.6
Input / output	3/1 3/3			3/3				
<b>INPUT</b>								
Rated voltage	400 V (3ph+N)							
Voltage tolerance	3ph + N 400 Vac (-15/+20%) up to -40% @ 70% of nominal load			3ph + N 400 Vac (-10/+20%) up to -40% @ 70% of nominal load				
Rated frequency	50/60 Hz							
Frequency tolerance	45 ÷ 66 Hz							
Power factor / THDI	> 0.98% / < 3% > 0.99							
<b>OUTPUT</b>								
Rated voltage	220/230/240 V (1ph+N) 380/400/415 V (3ph+N)		380/400/415 V (3ph+N)					
Voltage tolerance	Static: ±1% Dynamic: VFI-SS-111 (EN62040-3) compliant							
Rated frequency	50/60 Hz							
Frequency tolerance	±0.01% (on mains power failure)							
Overload UPS designed @ Pn	125% for 10 min. 150% for 1 min							
Crest factor	3:1							
<b>UPS CABINET</b>								
Dimensions W x D x H	444x800x1400 mm						600x850x1400 mm	
Weight	without batteries 89 kg with internal batteries 333/430/527/624 (2/3/4/5 shelf) kg		89 kg	95 kg	186 kg	240 kg		
Protection degree	IP20 (EN 50171)							
Acoustic level (dBA) 1m (ISO 3756)	< 43			< 49		59	63	
<b>BATTERY</b>								
Type	VRLA with 10-year life expectancy							
Charging capability	80% of back-up time in 12h							
<b>STANDARDS</b>								
CPSS	EN 50171							
Safety	EN 62040-1							
EMC	EN 62040-2							
Performance	EN 62040-3							
Product certification	CE, UKCA							