

# MASTERYS IP+

Robust, highly reliable UPS protection for industrial environments  
from 80 to 120 kVA

Superior



MASTE\_135-A-EPS

## The solution for

- > Industrial processes
- > Power plant
- > Critical infrastructure

## Advantages



## Certifications and attestations



MASTERYS IP+ is certified by TÜV SÜD with regard to product safety (EN 62040-1).



## Designed for the most demanding applications

- Designed to protect industrial processes.
- Double conversion transformer-based UPS.
- Robust enclosure (2 mm thick heavy steel structure).
- Floor anchoring (to prevent tilting).
- Standard IP31 protection degree.
- Operation at temperature up to 50 °C.
- Wide input voltage tolerance.
- Double overvoltage protection.
- Design for unbalanced load.

## Easy integration into industrial networks

- Compatible with Open Vented Lead Acid, Valve Regulated Lead Acid (VRLA) batteries.
- User-friendly multilingual interface with graphic display.
- Flexible communication boards for every industrial communication need: dry contacts, MODBUS, PROFIBUS, etc.
- Fully compatible with generator sets.

## Process continuity

- Frontal access for input/output cabling, spares replacement and preventative maintenance.
- Internal maintenance bypass switch.

### Standard electrical features

- Dual input mains
- Internal maintenance bypass.
- Backfeed protection: detection circuit.
- EBS (Expert Battery System) for battery management.

### Standard communication features

- Multilanguage graphic display.
- Dry contact interface.
- RS 232/485.
- MODBUS/JBus.

### Electrical options

- EPO (emergency power off).
- Additional transformer.
- Parallel kit.

### Technical data

<i>MASTERYS IP+ 80-120</i>			
Rated Power (kVA)	80	100	120
<b>RECTIFIER INPUT</b>			
Input voltage (VAC)	3Ph 380/400		
Voltage range	+15% -10% (full operating capacity)		
Power factor	> 0.7 (12-pulse)		
<b>BYPASS</b>			
Bypass input voltage (VAC)	1Ph 220/230		
Bypass input frequency (Hz)	50/60		
<b>BATTERY</b>			
Battery voltage (VDC) nominal	360		
<b>INVERTER</b>			
Output voltage (VAC)	1Ph 220/230		
Output frequency (Hz)	50/60		
Pn (KW)	64	80	96
AC waveform Sinewave with voltage	Precision <1%		
Overload at 125% / 150%	10/1 min		
<b>CABINET</b>			
Dimensions WxDxH	2400 x 800 x 2200 mm		
Weight max (kg)	1300	1400	1600
Protection class	standard IP31		
Cabinet thickness	2.5 mm (frame), 2.0 mm (door)		
Input/output connections	Bottom cable in/out		
Colour	RAL7035		
<b>ENVIRONMENT</b>			
Operating temperature	0-40		
Relative humidity	10-95% (without condensation)		
Noise at 1 m(dBA)	< 65		
AC-AC Efficiency	up to 90%		
<b>STANDARDS</b>			
Safety	IEC62040-1		
EMC	IEC62040-2		
Performance	IEC62040-3		