from 10 to 40 kVA

for applications in environments with specific constraints and industrial processes

Designed for the most demanding environments

- Designed to protect industrial processes.
- A compact solution with isolation transformer and batteries integrated into the UPS cabinet.
- Metal IP 21 cabinet (IP rating can be increased).

Tailored to your needs

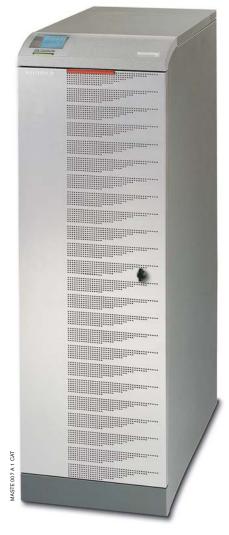
- Easy to handle (fitted with castors).
- Scalable power or availability (using redundancy) by placing up to 6 units in parallel.
- Very low harmonic distortion (THDI < 3%) via use of an IGBT rectifier [Info. p. 98].
- Interactive: LAN network interface integrated as standard, for improved UPS supervision [Info. p. 105].
- Graphic display for total system control.
- Redundant batteries: the battery packs are connected to each other in two distinct strings. If one battery in a string is not functioning, it does not compromise the back-up time provided by all the batteries belonging to the other string.
- EXPERT BATTERY SYSTEM for battery management [Info. p. 106].
- ALWAYS ON MODE energy saving operation without upstream harmonic feedback [Info. p. 99].
- GLOBAL SUPPLY SYSTEM generating set management [Info. p. 104].
- ENERGY SAVER power management in parallel configuration [Info. p. 99].
- Protection against backfeed on the upstream network (internal or external backfeed).

• ADC remote signalling interface: dry contacts.

- Separate rectifier and bypass networks.
- Internal maintenance manual bypass.



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



Your protection for

> Industrial processes

> Services

> Medical



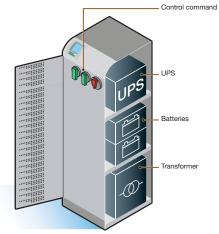


Range

Model	Input/output	kVA	Back-up time std
IP 110	3/1	10	20'
IP 310	3/3	10	20'
IP 115	3/1	15	11'
IP 315	3/3	15	11'
IP 120	3/1	20	6'
IP 320	3/3	20	6'
IP 330	3/3	30	4'
IP 340	3/3	40	external bat.

Back-up time at 75% of the load.

Internal architecture



Technical data

kVA	10	15	20	30	40	
kW	8	12	16	24		
Input/output: 3/1	•	•	•			
Input/output: 3/3	•	•	•	•	•	
Parallel configuration	up to 6 units					
INPUT						
Nominal voltage	(3ph + N) 400 V \pm 20 % $^{(2)}$ (up to -35 % at 70 % nominal load)					
Input frequency	50/60 Hz ± 10%					
Power factor/THDI ⁽¹⁾	0.99 / <3 %					
OUTPUT						
Output voltage	if single-phase 230 V \pm 1% (can be configured 220/240 V) if three-phase 400 \pm 1% (380/415 V configurable) ⁽²⁾					
Output frequency	50/60 Hz ± 2%					
	(configurable with generating set from 1% to 8%)					
Automatic bypass	Nominal output voltage ± 15%					
Onderd	(configurable with generating set from 10 % to 20 %)					
Overload	125 % for 10 minutes / 150 % for 60 seconds					
Crest factor	3:1 (complying with IEC 62040-3) up to 0.9 lead. (up to 0.7 lead. for 10 min.)					
PF acceptable without de-rating		up to 0.	9 lead. (up to 0.7	lead. for 10 min.)		
EFFICIENCY			to 000/			
Global efficiency (On-line)	up to 90%					
Efficiency in ECO-MODE	up to 97 %					
Efficiency in ALWAYS-ON MODE ENVIRONMENT			up to 95%			
Operating ambient temperature		0 °C + 40 °C (box	at hattarı lifa fran	1 1 5 0 0 to 0 5 0 0 0		
Storage temperature range	0 °C +40 °C (best battery life from 15 °C to 25 °C) -5 °C +50 °C (best battery life from 15 °C to 25 °C)					
Relative humidity	-5 °C +50 °C (best battery life from 15 °C to 25 °C)					
Maximum altitude						
Noise level (ISO 3746)	1000 m no de-rating (maximum 3000 m) < 55 dB					
WEIGHT (kg)			< 33 UB		< 02 UD	
Weight (with standard batteries)	300	310	350	400	340(3)	
DIMENSIONS (WxDxH) and BAC			330	400	340	
Cabinet type T (Tall)	K-OF TIVIL III	111111.				
(444 x 795 x 1400 mm) Standard configuration	20'	11'	8'	5'		
Max. B.U.T. ⁽⁴⁾	up to 500'	up to	up to 200'	up to 130'	up to 90'	
STANDARDS						

Indicated back-up time at 75 % load

Performance & topology EMC standard

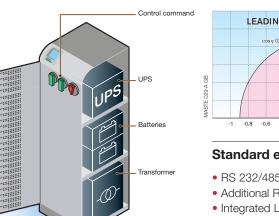
Product certification

Safety

IP rating

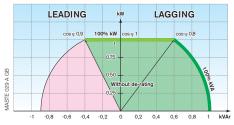
(1) for source THDV < 2% and nominal load - (2) Three-phase 220 - 230 - 240 V from 15 to 30 kVA on demand

(3) without batteries - (4) Back-up time.



Supply of lagging and leading loads

[Info. p. 97]



Standard equipment

- RS 232/485 serial port.
- Additional RS 232 interface.
- Integrated LAN interface.
- 2 slots for interfaces.
- ADC interface (configurable dry contacts).
- Integrated galvanic isolation transformer.

Accessories

- Parallel kit.
- Power share (load shedding outputs).
- External maintenance bypass.
- Extended back-up time.
- Additional battery charger.
- Permanent isolation controller (CPI).
- ACS synchronisation system [Info. p. 70 and 74].

Communication options

- Remote access panel.
- GSS interface (generating set management)
- UNI VISION PRO software to manage connected applications and control automatic shutdowns. Serial cable included [Info. p. 93].
- **NET VISION** interface WEB/SNMP manager for connecting the UPS to the Ethernet network [Info. p. 93].

Remote maintenance

• T.SERVICE for permanent contact between your **MASTERYS** and the SOCOMEC UPS maintenance service [Info. p. 110].





IEC 62040-1-1 (TÜV SÜD certified), IEC 60950-1-1 (EN) IEC 62040-3 [VFI-SS-111]

(EN) IEC 62040-2 (2nd edition) EN 50091-2

CE

IP 21 (according to IEC 60529), IP 31 optional