

MASTERYS EB

from 2 x 15 to 3 x 30 kVA

modular UPS for IT and industrial applications

A solution to satisfy the most demanding expectations

- Vertical module concept, with no single point of failure.
- Upgradeable whilst still protecting the initial investment.
- Unequalled availability of power supplied to critical applications.

Tailored to your environment

- Easy to handle (fitted with castors).
- Reliable: redundancy of all main components.
- Power modules can be removed and replaced on site.
- Harmonic distortion reduced (THDI < 3 %) via use of an IGBT rectifier.
- Interactive: LAN network interface integrated as standard, for improved UPS supervision.
- Graphic display for total system control.
- Redundant batteries: the battery packs are connected to each other in two distinct strings. If one component of a battery assembly is defective, the back-up provided by the other assembly is not affected.
- EXPERT BATTERY SYSTEM for battery management.
- ALWAYS ON MODE energy saving operation without upstream harmonic feedback .
- GLOBAL SUPPLY SYSTEM generating set management.
- ENERGY SAVER power management in parallel configuration.
- Protection against backfeed on the upstream network.
- Separate rectifier and bypass networks.
- Internal maintenance manual bypass.



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



Your protection for

- > Data centers
- > e.business
- > Medical



Range

Model	Input / output	kVA	Redundancy	Back-up time std
EB 330	3/3	30 (2 x 15)	N + 1	11'
EB 345	3/3	45 (3 x 15)	N + 1 / N + 2	11'*
EB 360	3/3	60 (2 x 30)	N + 1	4'
EB 390	3/3	90 (3 x 30)	N + 1 / N + 2	4'*

Back-up time at 75 % load.

*using an external battery cabinet type W

Technical data

kVA	2 x 15	3 x 15	2 x 30	3 x 30	
kW	2 x 12	3 x 12	2 x 24	3 x 24	
Input / output: 3 / 3	●	●	●	●	
Parallel configuration	up to 3 modules		up to 3 modules		
INPUT					
Nominal voltage	(3ph + N) 400 V ± 20 % (up to -35 % at 70 % nominal load)				
Input frequency	50 / 60 Hz ± 10 %				
Power factor / THDI ⁽¹⁾	0.99 / < 3 %				
OUTPUT					
Output voltage	three-phase 400 ± 1 % (380 / 415 V configurable)				
Output frequency	50 / 60 Hz ± 2 % (configurable from 1 % to 8 % with generating set)				
Automatic bypass	Nominal output voltage ± 15 % (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)				
PF acceptable without de-rating	up to 0.9 lead. (up to 0.7 lead. for 10 minutes)				
EFFICIENCY					
Global efficiency (On-line)	up to 92 %				
Efficiency in ECO-MODE	up to 98 %				
Efficiency in ALWAYS-ON MODE	up to 96 %				
ENVIRONMENT					
Operating ambient temperature	0 °C to + 40 °C (best battery life from 15 °C to 25 °C)				
Storage temperature range	-5 °C to + 50 °C (best battery life from 15 °C to 25 °C)				
Relative humidity	0 % - 95 % without condensation				
Maximum altitude	1 000 m without de-rating (maximum 3 000 m)				
Noise level (ISO 3746)	< 55 dB				
WEIGHT (kg)					
Weight (with standard batteries)	450	315 ⁽⁴⁾	500 ⁽²⁾	350 ⁽⁴⁾	
DIMENSIONS (W x D x H) and BACK-UP TIME in min					
Type W cabinet ⁽³⁾ (Large) (600 x 795 x 1 400 mm)		11'	11'(3)	4'	4'(3)
Max. B.U.T. ⁽⁵⁾		up to 65' ⁽³⁾	up to 65' ⁽³⁾	up to 28' ⁽³⁾	up to 28' ⁽³⁾
STANDARDS					
Safety	IEC 62040-1 (TÜV SÜD certified), IEC 60950-1-1				
Performance & topology	(EN) IEC 62040-3 [VFI-SS-111]				
EMC standard	IEC 62040-2 (2nd Edition) EN 50091-2				
Product certification	CE				
IP rating	IP 20 (according to IEC 60529), IP 21 optional				

■ standard configuration - back-up time at 75 % load

(1) for source THDV < 2 % and nominal load

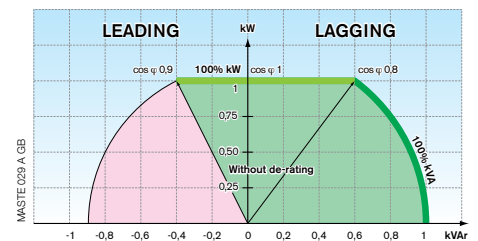
(2) batteries fitted in an external cabinet

(3) 2 type W cabinets: 1 for the UPS and 1 for the batteries.

(4) without batteries

(5) Back-up time

Supply of lagging and leading loads



Standard equipment

- RS 232 / 485 serial port.
- Additional RS 232 interface.
- Integrated LAN interface.
- 2 slots for interfaces.

Accessories

- Power share (load shedding).
- External maintenance bypass.
- Additional battery charger.
- ACS synchronisation system.

Communication options

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

Remote maintenance

- **T.SERVICE** for permanent contact between your **MASTERYS** and the SOCOMEC UPS maintenance service.