

EG-MD 15kVA – 900kVA

High-performance three-phase modular UPS for absolute continuity in all critical applications

Fully scalable and high efficiency (99.6% in ECO mode), the EG-MD series based on 15, 25 and 75 kVA/kW modules guarantee energy saving and minimum TCO (Total Cost of Ownership).

Applications

- Data centers: from micro to large
- Network Operations Centers (NOC)
- Security operations centers
- Telecommunication systems
- Broadcast and video streaming infrastructure
- Industrial automation control systems
- Remote teaching infrastructure
- Healthcare facilities



Features

- The high-density design with full hot-swap technology for both power and bypass modules ensures continuity and protects your load at all times.
- Power factor of 1 (kW = kVA): maximum active power available at all times.
- Very high efficiency (up to 99.3% in ECO Smart mode) for maximum energy saving: bypass and inverter work together to provide combined energy to the load and ensure zero transfer time in the event of a blackout.
- Up to 4 units can be connected in parallel (up to 3.6 MW) for power or redundancy.
- Long component life for a lower TCO (Total Cost of Ownership): the Energy Saver function automatically makes the power modules work in rotation to ensure greater efficiency and duration.
- Designed to minimize impact on generators and avoid over-dimensioning them.
- Optimized footprint for maximum installation versatility to make installation possible in any type of environment.
- Easy installation thanks to the central bypass that ensures better load balance and lower risk of system overload.
- Variable battery string configuration can be set from the LCD for maximum installation flexibility.
- Minimum battery voltage can be set according to the discharge current, so the batteries can always be used in the best way to maximize their expected or lifespan life.
- High quality long-life capacitors (up to 10 years under favorable operating conditions).
- Cold start function included.
- Compatible with lithium-ion batteries or other technologies.
- Dual input for main power supply and bypass.
- Internal manual bypass.
- User-friendly LCD touch display with multi-language graphical user interface to have everything under control at all times.
- Event log can be downloaded directly from the LCD via USB port.
- Communication slots for optional card.
- RS485-ModBus, relay card with dry contact and USB port built-in.

Key options

- Input, output and bypass breaker.
- Communication cards: Web SNMP.
- Isolation transformer.
- Additional battery charger for long uptimes.

Contact us for a complete list of accessories

60 kVA Combo solution

- Up to 4 internal strings of 40 x 9 Ah batteries.
- Fuses to protect each string.

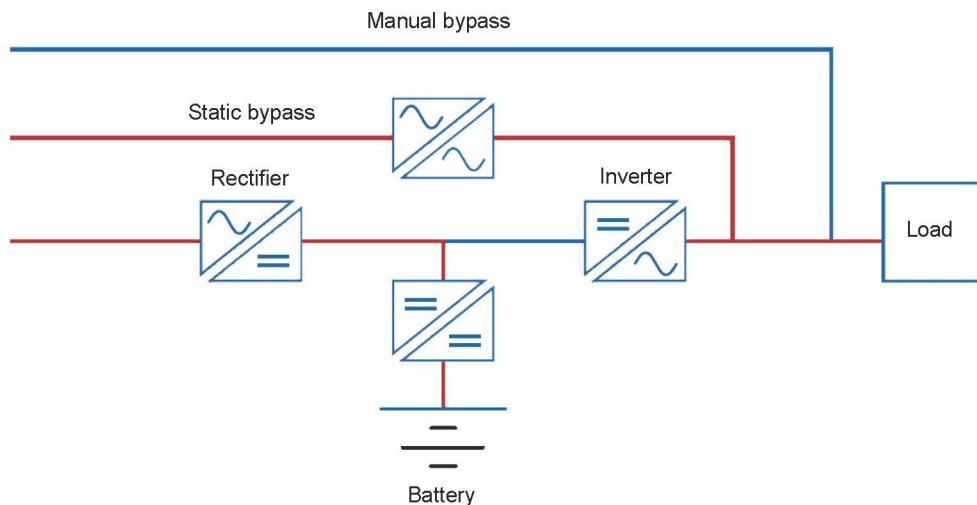
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Energy Saver: higher efficiency and lower TCO (Total Cost of Ownership)

The Energy Saver function ensures the modules last a long time by automatically making them work in rotation to balance component wear and increase their life.

ECO Smart mode: higher energy savings and maximum availability of connected systems

In ECO Smart Mode (iECO), the bypass and inverter work together to provide combined energy. This can achieve greater efficiency (up to 99.3) and ensure a transfer time of 0.



EG-MD

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Technical Data Sheet

UPS										EG-MD 15-900			
Power [VA]		15		25		75							
Power [W]		15		25		75							
INPUT													
Rated voltage	400 Vac three-phase + neutral												
Voltage tolerance	20% @ 100% load, -40% to -20% @50% load												
Rated frequency	40 - 70 Hz												
Power factor	≥ 0.99												
Current distortion (THDi)	< 3%												
OUTPUT													
Rated voltage	380/400/415 Vac three-phase + neutral												
Voltage stability	±1 % (static load)												
Frequency	50 / 60 Hz												
Frequency stability	±0.01% (free running)												
Power factor	1												
Crest factor	3:1												
Voltage distortion	≤3% with linear load, ≤6% with distorting load												
Permissible overload	110% for 60 minutes, 125% for 10 minutes, 150% for 1 second												
BATTERY													
Battery cabinet	modular												classic
Battery architecture	modular 4 strings												separate cabinet
Number per string (batt 12V)	40												32-44 configurable
Max. changing current	3 A per module												15 A per module
EFFICIENCY													
VFI mode	Up to 95.3%												Up to 96%
ECO Smart mode	99.3%												
Battery mode	Up to 95.2%												Up to 95.7%
BYPASS													
Rated voltage	380/400/415 Vac three-phase + neutral												
Voltage tolerance ¹⁾	-40% to +20% (selectable)												
Frequency	50/60 Hz												
Frequency tolerance	50/60 Hz ±4%												50/60 Hz ±6%
GENERAL													
Cabinet model EG-MD	COM- BO60-00 cabinet	R30-00	R60-00	R120-00	R150-00	R250-00	R450-00	R600-00	R900-00				
Module power (kVA)	15												75
Power modules that can be installed	up to 4	up to 2	up to 4	up to 8	up to 6	u.t. 10	up to 6	up to 8	u.t. 12				
Parallel connection	up to 4												
Cabinet dimensions (WxDxH) mm	600x1100x 2000	442x800x6 62	442x800x8 40	442x800x1 195	600x1000x 1600	600x1000x 2000	900x1000x 2000	1200x1000 x2000	1800x1000 x2000				
Weight (kg) ²⁾	444	120	164	263	284	410	650	800	1200				
Protection class	IP 20												
CONNECTIVITY													
User interface	7" color LCD touch display												
Built-in communication ports	USB, 1 additional slot, EPO, RS485- ModBus, RS232 GEN, BCB, 4 in/8 out relay with dry contacts												USB, 1 additional slot, EPO, BFP, RS485-ModBus, RS232 GEN, BCB, 4 in/8 out relay with dry contacts
Optional accessories	Cards: SNMP, battery temperature sensor												
ENVIRONMENTAL PARAMETERS													
Operating temperature ³⁾	0 - 40°C												
Relative humidity	0% - 95% (non-condensing)												
Altitude (a.s.l.)	< 1000 m with no power derating, > 1000 m with 0.5% derating for every 100 m												
Audible noise at 1 m	<70 dBA												
REGULATIONS													
Standards	IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3												
Marking	CE, UKCA												

Notes: 1) Subject to conditions.

2) Includes empty battery modules for EG-MD Combo.

3) To be verified according to the battery parameters.

Specifications subject to change without notice.

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