EG-AR RT PRO
1000VA – 3000VA

Ideal UPS for applications that require extended battery operation. Their advanced technology maximizes battery life and ensures high efficiency.

Applications

- Network and telecommunications equipment
- Medium-voltage substations
- PLC control cabinets
- BMS and SCADA systems
- Video surveillance, security and IoT devices

Special applications

Medium-voltage substations and control cabinets (PLC)

We have a solution whenever you need residual battery capacity. With our firmware, you can be sure that the UPS always has enough battery capacity to be turned on again and power the load.

Benefits

- Built-in feature that is free and easy to implement.
- Backup of at least 60 minutes, residual charge control in accordance with CEI 0-16.
- Easily customizable residual battery capacity.
- Cold UPS start-up.
- Battery alarm and residual backup time indicator.
- Maximizes battery protection and life.

To ensure in any conditions 24/7 opening of electric shutters or doors of shops, bars, restaurants, warehouses and service businesses

If an electric shutter is protected by a UPS, and for some reason the mains circuit breaker trips or there is no power, the open/close mechanisms cannot be operated. The "remote on/off" option means that our UPS can be switched on even without mains power so the electric shutter can be opened or closed.

Benefits

- Option that is easy to implement on request.
- Reduces TCO by avoiding the need to over dimension the UPS and batteries to overcome long periods without power (e.g. when closing a business for holidays).
- Maximizes battery protection and life.

Features

- Online Double-conversion technology (VFI) from 1000VA to 3000VA with a power factor 1.
- Lithium battery ready.
- Flexible design offering both rack or tower installation with rotating display panel to suit.
- Easy installation.
- Low running costs with selectable high-efficiency (VFI) and ECO modes.
- Extended autonomies for maximum availability via external battery banks.
- User-friendly downloadable monitoring software supporting the main OS providing monitoring functions, diagnostics and automatic controlled shutdown of connected loads.
- Constant voltage constant frequency (CVCF) output mode offering maximum protection to sensitive loads.
- High overload capacity.
- Wide input voltage and frequency ranges reducing battery switching resulting in maximum service life.
- Configurable battery reserve percentage from 3% to 100% of available capacity.
- Real-time battery autonomy remaining available through the display.
- Two sets of IEC sockets that can be programmed separately.
- Cold start.
- Firmware can be upgraded easily to implement new features.
- EPO or On/Off with remote option.
- RS232, USB and mini slot to accept optional communication cards.
- Supplied with input and output power cables.

Key options

- Communication cards to include RS-485 Modbus, SNMP/web and relay interface with programmable dry contacts to integrate with various systems, such as BMS, PLC, SCADA and AS400.
- External manual bypass panels with additional sockets.
- External battery cabinets.
- Lithium battery upgrade.
- 8A super charger.
- Smart Ambient Temperature Detector.
- Temperature compensation.

Longer battery life

- Set the battery discharge level (3-100%) with the free software.

Battery reserve management

- The UPS turns off when it reaches the set residual battery charge level.
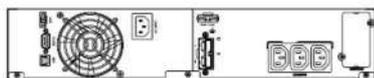- The UPS can be switched on again manually even without mains power.

Uptime table

Consulting the summary table below will let you quickly identify a model based on the total VA/W consumption of the devices to be protected.

UPS EG-AR PRO	1000 VA	2000 VA	3000 VA
UPS Power in W	1000	2000	3000
Device input power in Watts	Uptime in minutes		
52.5	> 90	> 90	> 90
105	60	90	> 90
210	33	72	> 90
315	20	50	65
455	14	33	42
595	9	21	31
700	7	18	26
900	5	15	18
1050		12	15
1225		9	13
1400		7	12
1800		5	8
2100			6
2700			4

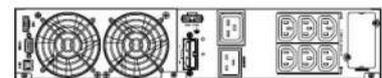Indicative input power of various devices (you are advised to check actual input power).
• Router 30 W • POS + Cash register 50 W • NAS 60 W • 43" TV 100 W • Inkjet printer / Scanner 180 W • Desktop PC + 21" LCD monitor 250 W • Desktop Gaming PC + 24" LCD monitor 500 W • High-end dual-processor PC + 32" LCD monitor 800 W • Rack/tower server from 300 to 1000 W • Video game console 140 W

EG-AR 1000 RT PRO

EG-AR 2000 RT PRO

EG-AR 3000 RT PRO

EG-AR_RT_PRO

Technical Data Sheet

UPS	EG-AR 1000 RT PRO	EG-AR 2000 RT PRO	EG-AR 3000 RT PRO
Power [VA]	1000	2000	3000
Power [W]	1000	2000	3000
INPUT			
Rated voltage [1]	110 - 300 Vac		
Frequency	44 - 66 Hz		
Power factor	> 0.99		
OUTPUT			
Rated voltage	200 / 208 / 220 / 230 / 240 Vac		
Voltage distortion	<3% with linear load, <7% with distorting load		
Voltage stability	±1 %		
Frequency	50 / 60 Hz (selectable)		
Frequency stability	±1 Hz or ±3 Hz (selectable)		
Power factor	1.0		
Crest factor	3:1		
Waveform	Pure sine wave		
Output sockets	3 x IEC C13	6 x IEC C13	6 x IEC C13 1 x IEC C19
EFFICIENCY			
VFI mode	Up to 93%		
ECO mode	Up to 98%		
GENERAL			
Dimensions (WxDxH) mm	440 x 454 x 88 (2U)	440 x 640 x 88 (2U)	440 x 640 x 88 (2U)
Weight (kg)	15.8	24.4	27
Alarms	Audible and visual alarm alerts for: power failure, low battery, Bypass transfer and UPS fault		
Protection	Overload, overheating, short circuit, deep discharge, battery overcharging		
Operating mode	Multi-mode: VFI, ECO, Constant voltage constant frequency (CVCF) output.		
Cold start from the battery without mains power	Included		
BATTERY			
Battery type	12V VRLA, AGM (maintenance-free lead)		

Number per strings		3	6	
Uptime with internal battery in minutes	50% load	10	11	9
	100% load	3	3	2
Charging time (90%)		5 hours		
Battery expansion module dimensions (WxDxH) mm [2]		440 x 454 x 88 (2U)	440 x 640 x 88 (2U)	

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 1% derating for every 100 m
Audible noise at 1 m	≤50 dB
CONNECTIVITY	
Built-in communication ports	USB, RS232, EPO and additional slots for optional cards
User interface	LED, LCD and function keys (parameters: voltage, frequency, load percentage, battery voltage, output voltage, estimated uptime, UPS temperature).
Optional accessories	Cards: SNMP, RS485 ModBus and dry relay contacts
Compatible software platforms	Microsoft Windows, Linux, Mac OS, VMware
REGULATIONS	
Standards	IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3
Marking	CE, UKCA

Notes:
1) Depending on the load.
2) Battery weight and configuration depends on the required uptime.
3) To be verified according to the battery parameters

Specifications subject to change without notice.

EG-AR_RT_PRO

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EG-AR SMART Tower
1000VA – 3000VA

UPS offering premium quality in its simplest format and perfect for POS, small network applications and IT equipment. With its advanced technology, battery life expectancy is maximized whilst delivering exceptional system efficiency and performance.
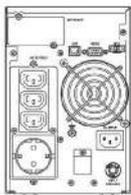
Applications

- High-end PCs
- Workstations and servers
- Server rooms and micro data centers
- Electromedical equipment
- Network and telecommunications equipment

- Medium-voltage substations
- PLC control cabinets
- BMS and SCADA systems
- Video surveillance, security and IOT devices
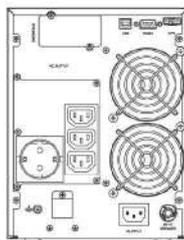
Features

- Online Double-conversion technology (VFI) from 1000VA to 3000VA with a power factor 0.9.
- Easy installation.
- Low running costs with selectable high-efficiency (VFI) and ECO modes.
- User-friendly downloadable monitoring software supporting the main OS providing monitoring functions, diagnostics and automatic controlled shutdown of connected loads.
- High overload capacity.
- Constant voltage constant frequency (CVCF) output mode offering maximum protection to sensitive loads.
- Wide input voltage and frequency ranges reducing battery switching resulting in maximum service life.
- Configurable battery reserve percentage from 3% to 100% of available capacity.
- Backup of ate least 60 minutes, residual charge control in accordance with CEI 0-16.
- Cold start.
- Firmware can be upgraded easily to implement new features.
- EPO or On/Off with remote option.
- RS232, USB and mini slot to accept optional communication cards.
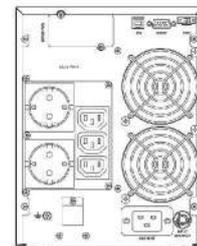- Supplied with input and output power cables.

Key options

- Communication cards to include RS-485 Modbus, SNMP/web and relay interface with programmable dry contacts to integrate with various systems, such as BMS, PLC, SCADA and AS400.
- External manual bypass panels with additional sockets.

EG-AR1000 Smart   *EG-AR2000 Smart*   *EG-AR3000 Smart*

Technical Data Sheet

UPS		EG-AR1000 S	EG-AR2000 S	EG-AR3000 S
Power [VA]		1000	2000	3000
Power [W]		900	1800	2700
INPUT				
Rated voltage [1]		110 - 300 Vac		
Frequency		44 - 66 Hz		
Power factor		≥0.98		
OUTPUT				
Rated voltage		200 / 208 / 220 / 230 / 240 Vac		
Voltage distortion		≤3% with linear load, ≤4% with distorting load		
Voltage stability		±1 %		
Frequency		50 / 60 Hz (selectable)		
Frequency stability		±1 Hz or ±3 Hz (selectable)		
Power factor		0.9		
Crest factor		3:1		
Waveform		Pure sine wave		
Output sockets		3 x IEC C13 1 Schuko	3 x IEC C13 1 Schuko	3 x IEC C13 2 Schuko
EFFICIENCY				
VFI mode		>89%	>90%	>91%
ECO mode		>96%		
GENERAL				
Dimensions (WxDxH) mm		147 x 308 x 224	192 x 425.8 x 249.9	
Weight (kg)		11.7	23.9	32.9
Alarms		Audible and visual alarm alerts for: power failure, low battery, Bypass transfer and UPS fault		
Protection		Overload, overheating, short circuit, deep discharge, battery overcharging		
Operating mode		Multi-mode: VFI, ECO, Constant voltage constant frequency (CVCF) output.		
Cold start from the battery without mains power		Included		
BATTERY				
Battery type		12V VRLA, AGM (maintenance-free lead)		
Number per strings		2	4	6
Uptime with internal battery in minutes	50% load	9	9	10
	100% load	3	3	3
Charging time (90%)		6 – 8 hours		
ENVIRONMENTAL PARAMETERS				
Operating temperature [2]		0 - 40°C		
Relative humidity		0% - 90% (non-condensing)		
Altitude (a.s.l.)		< 1000 m with no power derating, > 1000 m with 1% derating for every 100 m		
Audible noise at 1 m		≤45 dB	≤50 dB	
CONNECTIVITY				
Built-in communication ports		USB, RS232, EPO and additional slots for optional cards		
User interface		LCD and function keys (parameters: voltage, frequency, load percentage, battery voltage, output voltage, UPS temperature).		
Optional accessories		Cards: SNMP, RS485 ModBus and dry relay contacts		
Compatible software platforms		Microsoft Windows, Linux, Mac OS, VMware		
REGULATIONS				
Standards		IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3		
Marking		CE, UKCA		

Notes: 1) Depending on the load.
2) To be verified according to the battery parameters

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EG-AR_SMART

EG-AR PRO Tower
1000VA – 3000VA

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Special applications

Medium-voltage substations and control cabinets (PLC)

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- Built-in feature that is free and easy to implement.
- Backup of at least 60 minutes, residual charge control in accordance with CEI 0-16.
- Easily customizable residual battery capacity.
- Cold UPS start-up.
- Battery alarm and residual backup time indicator.
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Features

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- Easy installation.
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- Extended autonomies for maximum availability via external battery banks.
- User-friendly downloadable monitoring software supporting the main OS providing monitoring functions, diagnostics and automatic controlled shutdown of connected loads.
- Constant voltage constant frequency (CVCF) output mode offering maximum protection to sensitive loads.
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- Real-time battery autonomy remaining available through the display.
- Two sets of IEC sockets that can be programmed separately.
- Cold start.
- Firmware can be upgraded easily to implement new features.
- EPO or On/Off with remote option.
- RS232, USB and mini slot to accept optional communication cards.
- Supplied with input and output power cables.

PMA_EG-AR_PRO / PMA03260117

Key options

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- Lithium battery upgrade.
- 8A super charger.
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Longer battery life

- Set the battery discharge level (3-100%) with the free software.

Battery reserve management

- The UPS turns off when it reaches the set residual battery charge level.
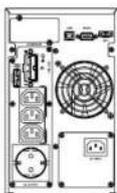- The UPS can be switched on again manually even without mains power.

Uptime table

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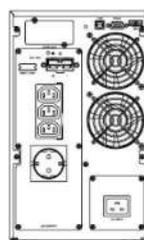
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UPS Power in W	1000	2000	3000
Device input power in Watts	Uptime in minutes		
52.5	> 90	> 90	> 90
105	60	90	> 90
210	33	72	> 90
315	20	50	65
455	14	33	42
595	9	21	31
700	7	18	26
900	5	15	18
1050		12	15
1225		9	13
1400		7	12
1800		5	8
2100			6
2700			4

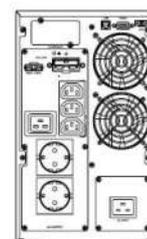Indicative input power of various devices (you are advised to check actual input power).
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Desktop PC + 21" LCD monitor 250 W • Desktop Gaming PC + 24" LCD monitor 500 W • High-end dual-processor PC +
32" LCD monitor 800 W • Rack/tower server from 300 to 1000 W • Video game console 140 W

EG-AR1000 PRO   EG-AR2000 PRO   EG-AR3000 PRO

EG-AR_PRO

Technical Data Sheet

UPS		EG-AR1000 PRO	EG-AR2000 PRO	EG-AR3000 PRO
Power [VA]		1000	2000	3000
Power [W]		1000	2000	3000
INPUT				
Rated voltage [1]		110 - 300 Vac		
Frequency		44 - 70 Hz		
Power factor		> 0.99		
OUTPUT				
Rated voltage		200 / 208 / 220 / 230 / 240 Vac		
Voltage distortion		<2% with linear load, <3.5% with distorting load		
Voltage stability		±1 %		
Frequency		50 / 60 Hz (selectable)		
Frequency stability		±1 Hz or ±3 Hz (selectable)		
Power factor		1		
Crest factor		3:1		
Waveform		Pure sine wave		
Output sockets		3 x IEC C13 1 Schuko	3 x IEC C13 1 Schuko	3 x IEC C13 1 x IEC C19 2 Schuko
EFFICIENCY				
VFI mode		Up to 93%		
ECO mode		Up to 98%		
GENERAL				
Dimensions (WxDxH) mm		154 x 445 x 258.2	192 x 620 x 319.9	192 x 620 x 319.9
Weight (kg)		14.7	24.1	26.3
Alarms		Audible and visual alarm alerts for: power failure, low battery, Bypass transfer and UPS fault		
Protection		Overload, overheating, short circuit, deep discharge, battery overcharging		
Operating mode		Multi-mode: VFI, ECO, Constant voltage constant frequency (CVCF) output.		
Cold start from the battery without mains power		Included		
BATTERY				
Battery type		12V VRLA, AGM (maintenance-free lead)		
Number per strings		3	6	
Uptime with internal battery in minutes	50% load	10	11	9
	100% load	3	3	2
Charging time (90%)		4 – 6 hours		
Battery expansion module dimensions (WxDxH) mm [2]		154 x 403.6 x 258.2	192 x 552.8 x 319.9	
ENVIRONMENTAL PARAMETERS				
Operating temperature [3]		0 - 40°C		
Relative humidity		0% - 90% (non-condensing)		
Altitude (a.s.l.)		< 1000 m with no power derating, > 1000 m with 1% derating for every 100 m		
Audible noise at 1 m		≤50 dB		
CONNECTIVITY				
Built-in communication ports		USB, RS232, EPO and additional slots for optional cards		
User interface		LCD and function keys (parameters: voltage, frequency, load percentage, battery voltage, output voltage, estimated uptime, UPS temperature).		
Optional accessories		Cards: SNMP, RS485 ModBus and dry relay contacts		
Compatible software platforms		Microsoft Windows, Linux, Mac OS, VMware		
REGULATIONS				
Standards		IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3		
Marking		CE, UKCA		

Notes:
1) Depending on the load.
2) Battery weight and configuration depends on the required uptime.
3) To be verified according to the battery parameters

Specifications subject to change without notice.

EG-AR_PRO