

EG1

SINGLE PHASE 1kVA-10kVA

**SINGLE PHASE
UNINTERRUPTIBLE POWER SUPPLIES
PURE SINE WAVE
ON LINE, DOUBLE CONVERSION
TECHNICAL SPECIFICATION**



STATIC UNINTERRUPTIBLE POWER GROUPS EG1 SERIES

double conversion – tower – pure sinusoidal waveform



The EG1 series is available from 1 KVA to 10 KVA with On-Line double conversion technology with digital control. For its versatility, this range is suitable to supply any electrical and electronic system even in critical situations, in addition to the possibility of using it as a 50/60Hz frequency converter or in combination with motor current generators

FEATURES

• **DOUBLE CONVERSION UPS**

A true DOUBLE CONVERSION UPS that will provide a perfect current, for complete high-quality protection for your sensitive devices, such as PC networks (Networks), Small Data Centers, Servers, Telecommunications, Healthcare / Hospital Equipment, and in industrial applications in general

• **OUTPUT POWER FACTOR ϕ 1.0**

Comparing this line of ON-LINE UPS with the competition on the current market, we can say that the EG1 UPS have the best 1.0 output Power Factor. Deliver high throughput and efficiency for critical applications

• **WIDE INPUT RANGE (110V-300V)**

EG1 is able to provide stable and clean current to the connected equipment even in very critical and unstable environments.

PROGRAMMABLE OUTPUT SOCKETS

With the programmable outlets output, the user can easily control part of the load connected to the UPS. During power outages, this function allows the user to increase the autonomy of the batteries and dedicate it to the exclusive protection of some critical appliances, interrupting the power supply to non-essential equipment

Programmable sockets (P1)
 - connect non-essential appliances



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• FREQUENCY CONVERTER FUNCTION 50/60 Hz

Lock the output frequency to 50Hz or 60Hz regardless of the input frequency and eliminate the By-Pass

• FUNCTION (EPO) Emergency Power Off

This function is used to extinguish the UPS by the personnel in case of fire and other emergency situation.

• SIMULTANEOUS OPERATION OF SNMP+USB+RS-232

This feature allows you to use communication from all USB, RS-232 and SNMP ports simultaneously (optional SNMP card).

• BATTERY CHARGER DESIGNED TO OPTIMIZE BATTERY PERFORMANCE

. The EG101-03K series is equipped with a 2-step battery charger to ensure maximum autonomy. It also adjusts the charging voltage according to the working temperature. All these measures have been designed to extend the life of the batteries mounted in the UPS over time.

. The EG106-10K UPSs are equipped with an extendable 3-step battery charger to optimize battery performance. This feature prolongs the autonomy and optimizes the charging time of the battery, also the extension of the battery charger is essential for charging batteries with greater power used to obtain long autonomy

• MANUAL BY-PASS FOR MAINTENANCE ON UPS FROM 6K ONWARDS

The manual By-Pass ensures the absence of voltages inside the UPS for maintenance, ensuring power to the connected equipment.

• REDUNDANT PARALLEL OPERATION FOR UPS FROM 6 TO 10K (optional)

The EG106K and EG110K can work in redundant parallel up to 3 units, this increases power capacity, work safety without service interruptions.



COMMUNICATION

Software for all operating systems and network environments, SUPERVISION platform and shut-down UPSILON 2000

WARRANTY 24 MONTHS



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MODEL		EG101K (S)	EG101.5K (S)	EG102K (S)	EG103K (S)	
POWER		1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W	3000 VA / 3000 W	
INPUT						
Volt Range	Nominal voltage	200/208/220/230/240VAC				
	Line switching low / high	110VAC / 300VAC ±3% @ 50% load 160VAC / 300VAC ±3% @ 100% load				
Frequency range		40 Hz ~ 70 Hz				
Phases		single phase with Neutral				
Power factor P. F.		≥ 0.99 @ rated voltage (100% load)				
OUTPUT						
Nominal voltage		200/208/220/230/240VAC				
Volt tolerance (Batt. Mode)		± 1%				
Frequency (Synchronization Range)		47Hz ~ 53 Hz or 57Hz ~ 63 Hz				
Frequency (Range Batt. Mode)		50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz				
Ridge Current Factor		3:1				
Harmonic distortion		≤ 2 % THD (linear load) ≤ 4 % THD (non-linear load)				
Intervention time	Line to battery	Zero				
	From Inverter to Bypass	4 ms (typical)				
Waveform (Batt. Mode)		PURE SINUSOIDAL				
EFFICIENCY						
With network present		≥ 89%		≥ 91%		
With battery operation		≥ 88%		≥ 90%		
BATTERIES						
Standard model and long-life model with external autonomy	Battery Type	12 V / 7 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	
	Battery quantity	3	3	6	6	
	Typical charging time	3 hours at 90% capacity				
	Charging current (max.)	Default 2.0A max 12 A settable		Default 2.0A max 8 A settable		
	Charging voltage	41.0 VDC ± 1%		82.1 VDC ±1%		
REPORTS						
LCD panel		UPS Status, Load Level, Battery Level, Input/Output Voltage, Battery Discharge Time, Fault Condition				
ALARMS						
Battery operation		Sound every 4 seconds				
Low Battery		1 play every second				
Overload		Double sound every second				
Fault		Continuous sound				
DIMENSIONS AND WEIGHTS						
Tower Format	Standard Model	Dimensions, D x W x H (mm)	397 x 145 x 220		421 x 190 x 318	
		Net weight (kg)	13,00	14,60	23,20	28,00
	Model without batteries	Dimensions, D x W x H (mm)	397 x 145 x 220		421 x 190 x 318	
		Net weight (kg)	7		12,30	
ENVIRONMENTAL DATA						
Operating humidity		20-90 % RH @ 0- 40°C (Non-condensing)				
Noise		< 50dBA @ 1 M				
INTERFACES						
Smart RS-232/USB		Windows family, Linux and MAC				
Optional SNMP		Power management for SNMP manager and web browser				

* (S) Identify long-life models

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MODEL		EG106K (S)	EG1010K (S)
PHASES		Single-phase input / single-phase output	
POWER		6000 VA / 6000 W	10000 VA / 10000 W
INPUT			
Volt Range	Nominal voltage	200/208/220/230/240VAC	
	Low/high line switching	110VAC / 300VAC $\pm 3\%$ @ 50% load 160VAC / 300VAC $\pm 3\%$ @ 100% load	
Frequency Range		46~54 Hz $\odot$ 50Hz / 56~64 Hz $\odot$ 60Hz	
Phases		Single phase with Earth	
Power factor P.F.		≥ 0.99 @ 100% of the load	
THDi %		$\leq 5\%$	
OUTPUT			
Nominal voltage		200/208/220/230/240VAC	
Volt tolerance (Batt. Mode)		$\pm 1\%$	
Frequency (Synchronization Range)		47~53 Hz $\odot$ 50 Hz / 57~63 Hz $\odot$ 60 Hz	
Frequency (Range Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
Ridge Current Factor		3:1	
Harmonic distortion		$\leq 2\%$ THD (linear load)	
		$\leq 4\%$ THD (non-linear load)	
Intervention time	Line to battery	Zero	
	From Inverter to Bypass	Zero	
Waveform (Batt. Mode)		PURE SINUSOIDAL	
EFFICIENCY			
With network present		94%	
With battery operation		91%	
BATTERIES			
Standard model and mod. long autonomy with external batteries	Battery Type	12 V / 7 AH	12 V / 9 AH
	Battery quantity	20	20
	Typical charging time	7 hours 90% capacity	9 hours 90% capacity
	Charging current (max.)	1.0 A @ 4.0 A	
	Charging voltage	273.0 VDC	
REPORTS			
LCD panel		UPS Status, Load Level, Battery Level, Input/Output Voltage, Battery Discharge Time, Fault Condition	
ALARMS			
Battery operation		Sound every 4 seconds	
Low Battery		1 play every second	
Overload		Double sound every second	
Fault		Continuous sound	
DIMENSIONS AND WEIGHTS			
Standard Model	Dimensions, D x W x H (mm)	592 x 250 x 576	
	Net weight (kg)	81	83
Models (S)	Dimensions, D x W x H (mm)	592 x 250 x 576	
Long autonomy	Net weight (kg)	22	24
ENVIRONMENTAL DATA			
Operating humidity		20-90 % RH @ 0- 40°C (non-condensing)	
Noise		< 55dBA @ 1 M	< 58dB @ 1 M
INTERFACES			
Smart RS-232		Windows family, Novell, Linux and FreeBSD	
USB			
Optional SNMP		Power management for SNMP manager and web browser	

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