



CATÁLOGO GENERAL

MODULVA®
LFS

your choice

A solution company.

INNOVA Seguridad Eléctrica, S.L., born in Spain as a company specializing in power electronics, and more specifically, uninterrupted power systems (UPS) and voltage stabilizers. .

Since the beginning of the activity, innova seguridad eléctrica, s.l. has contributed to the market personal, technical, commercial and business values that in our opinion were lost in the market, helping in this way the firm and fast consolidation of the company.

The integrated management of product and service, a permanent work in r + d + i and a sustainable business vision from the social point of view, have been the main contributions of innova seguridad eléctrica, s.l.

In a globalized market like the present, our company has managed to adapt to the technological changes, because we are not in a change of era, but that the era has already changed and, that is why, we have managed to have of high quality products and a service close to the customer. this confidence that we have in our products and services we want that reflects in our attitude with the clients offering 5 years of warranty* in all our range on-line.



* To access the warranty benefits must meet the following conditions: make a prescription on our website www.innovaups.com/ Carry out an annual review of the equipment in charge of our SAT (see the price according to your equipment) / The guarantee it does not include battery failures, voluntary breakages of the product or problems related to misuse or treatment.

Nationwide presence

INNOVA Seguridad Electrica, S.L. It is present in all the provinces of Spain, both commercial and technical, with a wide network of official services that offer a quick and optimal assistance to our clients.

Both our commercial and technical network are qualified to be able to help you from the choice of the equipment suitable for your installation, as the necessary requirements to implement the same one.

International expansion

Recently, INNOVA Seguridad Electrica, S.L. It begins its voyage in the export market with an ambitious implementation project, which at the moment has led us to have presence in countries such as Portugal, Colombia, Venezuela, Panama or Bolivia.

With a wide and specialized department of foreign trade, INNOVA Seguridad Electrica, S.L. attend the main international fairs, either as exhibitor or as guest visitor: CEBIT Hannover (Germany), FISE Medellín (Colombia), or Eletrica Oporto (Portugal). He also participates in a multitude of bilateral business meetings held in countries such as Portugal, Venezuela, Chile, Poland, Romania, Bulgaria, Hungary, Guatemala, Morocco or Tunisia.

Commercial delegations

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Sevilla
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Valladolid
Palma de Mallorca
Ciudad Real
Pamplona
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Zaragoza
Pontevedra
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South América

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Present in all markets

Since its implantation INNOVA Seguridad Eléctrica, S.L. has a great number of references in all sectors, such as the financial sector, telecommunications, transport, tertiary, CPD, sanitary, etc...

The implementation of a feeding systems in all the daily areas that allow us to carry out our habitual tasks, such as, for example, that we do not miss the current at the traffic lights, that our water network does not have cuts and have running water in our houses, that gas stations can supply fuel or that our elevator has a rescue system. All these examples are examples of everyday life that the electrical elements that make them possible are regulated by an uninterrupted feeding system (UPS).

INNOVA Seguridad Eléctrica, S.L. It is present in all the strategic sectors of our economy, as can be:

- Infrastructures
- Emblematic buildings
- Health
- Private sector
- State

Business and Quality Policy

With a clear intention to contribute to a sustainable world, the main objective of INNOVA Seguridad Eléctrica, S.L. is to participate and give form to socially responsible business projects.

We collaborate directly with different social groups that need social support and also business.



An efficient company

Our I+D+I Department is responsible for designing products that meet the qualities and specifications needed to be incorporated into our product portfolio.

In addition to these qualities our equipment is endowed with ECO specifications, such as the use of little or no contaminant materials, as well as management systems that allow us to be efficient..



Product range

18

INTERACTIVE

Compact MS - Compact Basic - Compact - Compact RT

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ON LINE

Plus - Plus RT - Plus TM - Eneo - Quality - Mquality

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STABILIZERS

AVR - SBW - SVC

38

SOLAR INVERTS

ISP - ISG - IGL

44

SOFTWARE

Dry Contact - SNMP - De Relés - Panel remoto

46

SAT

LEGEND

- 1:1 Input / Monophase output
- 3:1 Triphase input / Monophase output

- 3:3 Input / Triphase output

- Data center Applications
- Electromedical applications

- Industrial applications

- Transportation applications

- Applications emergency

- Applications in housing or small office

- Plug & Play: Operation without authorized personnel

- USB port

- Installation and ignition by authorized personnel

- Batteries can be changed to hot

- UL Certificate

- VI TYPE UPS interactive (Voltage Independent)

- VFI TYPE UPS Online (Voltage Frequency Independent)



Why put a UPS in my installation?

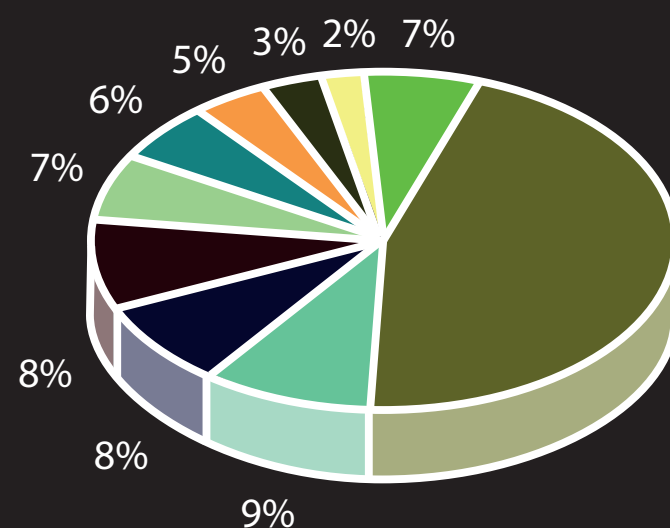
Have you ever thought that you can make a ups for yourself? Have you ever stopped to think how much is the cost Vs. investment for your company to have or not have a UPS? How much are your data worth? How much is your company worth?

Through this graphic we are pleased to teach you, given the belief on the other hand, that a UPS is nothing more than a system of batteries that works in the absence of light, which is a system that protects you before many more electrical elements of the network.

It is true that statistically 45% of data loss is due to energy problems, but there is another 55% which can be solved by installing an UPS.

See the following graph on the elements that produce the data loss as a demonstration of this reflection.

- Energy problem
- Storm damage
- Fire or explosion
- Mistakes Hard/Soft
- Water damage
- Earthquake
- Beef falls
- Human Errors
- High Voltage failures
- Others

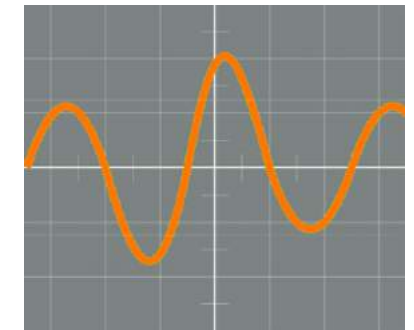


Energy problems

► RISES.

Brief increase in tension.

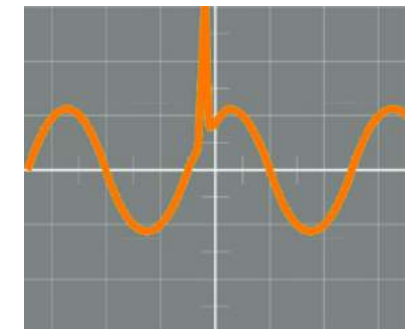
The equipment has been designed for a certain range of voltages. Outside this range, component heating is produced and the life of the equipment decreases.



► IMPULSES

An instantaneous increase in tension.

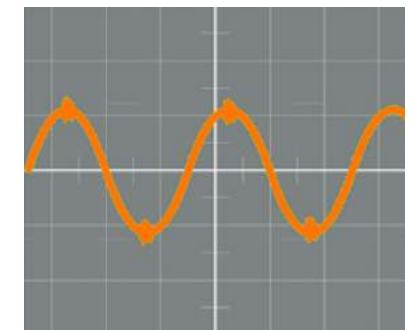
The impulses enter through the power line and completely destroy the components. Unquantifiable damage to hardware and data loss occurs.



► ZEROS.

Total power Drop.

Data is lost in the computer's memory. It can also damage the hard drive, resulting in a total loss of data on the disk.



► NOISE.

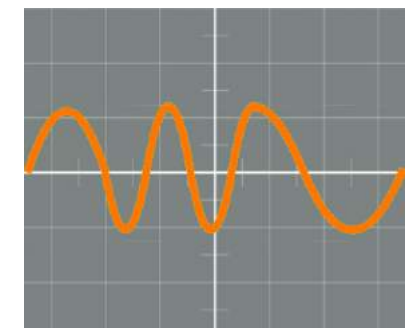
Electrical interferences that dirty the senoid (EMI y RFI)

The noise introduces errors in the programs and data files in the computers and interferences in the communications and radio equipment.



► FRECUENC VARIATIONS. **Unstable frequencies**

Normally the generators are produced during startup and can cause breakage, breakdowns or readings based on erroneous time.



UPS in tower format

Range	COMPACT MS	COMPACT BASIC	COMPACT	PLUS	PLUS TM	ENEO	QUALITY	MQUALITY
Power	600-800VA	650-2000VA	650-2000VA	1-20kVA	6-20kVA	10-80kVA	100-500kVA	6,5-2080kVA
Type	Línea Interactiva	Línea Interactiva	Línea Interactiva	On Line Doble conversion	On Line Doble conversion	On Line Doble conversion	On Line Doble conversion	On Line Doble conversion
Wave form	Pseudosenoidal	Pseudosenoidal	Pseudosenoidal	Senoidal	Senoidal	Senoidal	Senoidal	Senoidal
Input voltage	Monofasica 230V	Monofasica 230V	Monofasica 230V	Monofasica 230V	Trifasica 380V	Trifasica 380V	Trifasica 380V	Trifasica 380V
Output voltage	Monofasica 230V	Monofasica 230V	Monofasica 230V	Monofasica 230V	Monofasica 230V	Trifasica 380V	Trifasica 380V	Trifasica 380V
Automatic Bypass	-	-	-	de serie	de serie	de serie	de serie	de serie
Manual Bypass	-	-	-	a partir de 6kVA	de serie	de serie	de serie	de serie
Test Battery	-	-	-	de serie	de serie	de serie	de serie	de serie
Port RS 232 Communication	-	-	-	de serie	de serie	de serie	de serie	de serie
Free Contact card	-	-	-	opcional	opcional	opcional	opcional	opcional
USB port	de serie	de serie	de serie	de serie	de serie	de serie	de serie	de serie
Eco mode Function	-	-	-	de serie	de serie	de serie	de serie	de serie
Emergency function (EPO)	-	-	-	de serie	de serie	de serie	de serie	de serie
Screem	-	-	de serie	de serie	de serie	de serie	de serie	de serie
Possibility of external autonomy	-	-	-	de serie	de serie	de serie	de serie	de serie

UPS in rack format

Range	COMPACT RT	PLUS RT 1-3k	PLUS RT 6-10k
Power	1-3kVA	1-3kVA	6-10kVA
Type	Línea Interactiva	On Line Doble conversion	On Line Doble conversion
Waveform	Senoidal	Senoidal	Senoidal
Input voltage	Monofasica 230V	Monofasica 230V	Trifasica 380 ó Monofasica 230V
Output voltage	Monofasica 230V	Monofasica 230V	Monofasica 230V
AutomaticBypass	de serie	de serie	de serie
Manual Bypass	-	-	-
Test Battery	de serie	de serie	de serie
Port RS 232 Communication	-	de serie	de serie
Free Contact card	-	-	-
USB port	de serie	de serie	de serie
Eco mode function	de serie	de serie	de serie
Emergency function (EPO)	-	de serie	de serie
Screen	de serie	de serie	de serie
Possibility of external autonomy	de serie	de serie	de serie

UPS INTERACTIVE - COMPACT MS



Our COMPACT BASIC MS range is a high performance range, with an ergonomic and modern design, which makes it the perfect and economical solution for the small problems related to current and electrical voltage (short circuits, ups and downs voltage).



MODEL	Compact MS 600	Compact MS 800
Capacity (VA/Watts)	600 / 360	800 / 480
Input voltage Range	110/120 Vac or 220/230/240 Vac	
Output voltage Range	Sinusoidal simulada ±10%	
Dimension DXWXH (mm)	270x190x90	
Net weight (kg)	3.55	4.9

► COMPACT AND STURDY.

Its ergonomic and functional design allows you to adopt different positions for the best location of the system

► ALWAYS ON LINE.

In addition to protecting, by means of your 1st loader, you can always be charging through your system MS of all devices (mobile phone, tablets, etc...)

► MANAJEABLE.

Its management system via USB port and Software allows you to know the status of your network at all times, providing information about cuts, uploads, resumptions of the network. This is possible through the visualization on the computer itself or through its management system in which you can opt to receive an email or SMS.



UPS INTERACTIVE - COMPACT BASIC

Our COMPACT BASIC range is a range with a great trajectory. It is a range of great features to cover small installations or systems.

This range has been growing in power and currently goes from the 650VA to the 2000VA..



MODEL	Compact 650	Compact 850	Compact 1000	Compact 1500	Compact 2000
Capacity (VA/Watts)	650 / 360	850 / 480	1000 / 600	1500 / 900	2000 / 1200
Input voltage Range	110/120 Vac or 220/230/240 Vac				
Output voltage Range	Sinusoidal simulada ±10%				
Dimension DXWXH (mm)	298x101x142		338x149.3x162	380x158x198	
Net weight (kg)	4.25	4.9	7.8	11.1	11.5

► HIGH PERFORMANCE.

Its high performance. it is a range with characteristics that makes it one of the most complete in the market for its different features such as can be, among others, its capacity to recharge in off mode, the capacity of fast charging batteries or their management system (range compact basic)

► MANEJEABLE.

Its management system via USB port and Software allows you to know the status of your network at all times, providing information about cuts, uploads, resumptions of the network. This is possible through the visualization on the computer itself or through its management system in which you can opt to receive an email or SMS

UPS INTERACTIVE - COMPACT



Our COMPACT range is a range with a great trajectory. It is a range of great features to cover small installations or systems.

This range has been growing in power and is currently going from the 650VA to the 2000VA.



UPS INTERACTIVE - COMPACT RT

COMPACT RT is a line of interactive equipment with sine wave (interactive line). It is a versatile range with the possibility of positioning it in Tower or Rack format.

It also supports the possibility of expansion of autonomies because the battery packs of this range have built in a more powerful charger with which to load them.

Ideal equipment for small rooms of servers, cabinets of communication Rack of 19 ", etc...



MODEL	Compact 650	Compact 850	Compact 1000	Compact 1500	Compact 2000
Capacitu (VA/Watts)	650 / 360	850 / 480	1000 / 600	1500 / 900	2000 / 1200
Input voltage Range	110/120 Vac or 220/230/240 Vac				
Output voltage Range	Sinusoidal simulada ±10%				
Dimension DXWXH (mm)	298x101x142		338x149.3x162	380x158x198	
Net weight (kg)	4.25	4.9	7.8	11.1	11.5

HIGH PERFORMANCE

It is a range with characteristics that makes it one of the most complete in theMarket for its different features such as, among others, its capacity to recharge in off mode, the capacity of fast loading of the batteries or its management system (COMPACT range).

MANAJEABLE.

Its management system via USB port and Software allows you to know the status of your network at all times, providing information about cuts, uploads, resumptions of the network. This is possible through the visualization on the computer itself or through its management system in which you You can opt to receive an email or a SMSC.

MODEL	Compact RT 1000	Compact RT 1500	Compact RT 2000	Compact RT 3000
Capacity (VA/Watts)	1000 / 800	1500 / 1200	2000 / 1600	3000 / 2400
Input voltage Range	100 V / 110 V / 120 Vac ± 26% or 220 V / 230 V / 240 Vac ± 26% (-35% opcional)			
Output voltage Range	100 V / 110 V / 120 Vac ± 9% or 220 V / 230 V / 240 Vac ± 9%			
Dimension DXWXH (mm)	440x338x88	440x410x132	440x410x132	440x410x132
Net weight (kg)	16.8	20.4	24.5	30.5

COMPACT AND STURDY

Its ergonomic and functional design allows you to adopt different positions for the best location of the system.

ALWAYS ON LINE.

In addition to protecting, by means of your 1st loader, you can always be charging through your system MS of all devices (mobile phone, tablets, etc...).

MANAJEABLE.

Its management system via USB port and Software allows you to know the status of your network at all times, providing information about cuts, uploads, resumptions of the network. This is possible through the visualization on the computer itself or through its management system in which you You can opt to receive an email or SMS.

UPS ONLINE - PLUS



The new PLUS range of INNOVA Seguridad Elctrica, S.L. It is an online double conversion line with VFI certification (voltage and independent frequency), which by its characteristics makes it the ideal equipment to protect the critical installations of your company (CPD, PLC, servers, etc...).

Its aesthetics, functionality, the possibility of assembly in parallel and/or parallel redundant, as well as admitting the enlargement in autonomy in a simple way according to its needs and requirements makes it the perfect solution for the use of their critical systems.

It also has an intelligent battery charging system (SENSICHARGER), which according to a series of operating and environmental parameters to which the equipment is working, carries out the load of the same to maintain an optimal state or recharge and increase the average life of the same.



- System ON LINE double conversion typology VFI
- Voltage-Independent Frequency
- Aesthetics and more modern design
- Extended autonomy possibility (up to 4 packs)
- Possibility of growth in power by means of the N + 1 system of parallel positioning up to 4 ud.-
- System Battery Charging SENSICHARGER
- High performance (> 96%)
- High frequency IGBT Technology
- Management Software
- RS232 and USB Communication port
- ByPass
- Possibility of adapting SNMP/DRY Contact network cards/Relays
- Emergency EPO System
- Available in various voltages 110v/60hz for different countries (request information)



MODELO	Plus 1000	Plus 2000	Plus 3000	Plus 5000	Plus 6000 (S/H)	Plus 8000	Plus 10000 (S/H)
Capacity (VA/Watts)	1000/900	2000/1800	3000/2700	5000/4500	6000/5400	8000/7200	10000/9000
Input voltage Range	200~240 V			120~276V			
Output voltage Range	190/252Vac			220/230/240Vac			
Dimension D×W×H (mm)	371x144x215	452x190x334		514x262x735			
Net weight (kg)	13	24.6	25.5	62 / 18		64 / 20	



UPS ONLINE - PLUS RT



The PLUS RT series is renewed with several aesthetic and functional changes. Under an ecological and sustainable green design conception, it offers the possibility of obtaining a high efficiency (96%) with the possibility of acquiring the system with a cosine of Phi 0,9 or 1.

Furthermore, its new display makes it simpler and more intuitive when it comes to understanding it with parameters such as input voltage, output, autonomy time or load level.

In its range of 1-3kva continues to count with the same dimensions (2u), being in the range of 6-10kVA (single-phase) where the electronics module is reduced from 3 to 2u, being the total of the whole (UPS + batteries) of 5U instead of 6U we have to and that for the Tri/mono range is still maintained actually.



- ▶ System ON LINE double conversion typology VFI
- ▶ Voltage-Independent Frequency
- ▶ New more Intuitive Display
- ▶ Dual RT Version (Rack 19 format "/Torre")
- ▶ Desing GREEN ECO
- ▶ Cosine de Phi 0,9 o 1
- ▶ Extended autonomy possibility (up to 4 packs)
- ▶ Possibility of growth in power by means of the N + 1 system of parallel positioning up to 4 ud.-
- ▶ SENSICHARGER Battery Charging System
- ▶ High efficiency (> 96%)
- ▶ High frequency IGBT Technology
- ▶ Management software
- ▶ RS232 and USB Communication port
- ▶ ByPass
- ▶ Possibility of adapting SNMP/DRY Contact network cards/Relays
- ▶ Emergency EPO System
- ▶ Available in various voltages 110v/60hz for different countries (request information)



MODELO	Plus RT 1000	Plus RT 2000	PLUS RT 3000	Plus RT 6000		Plus RT 10000	
				Plus RT 6000 1:1	Plus RT 6000 3:1	Plus RT 10000 1:1	Plus RT 10000 3:1
Capacity (VA/Watts)	1000/900	2000/1800	3000/2700	6000/6000	6000/5400	10000/10000	10000/9000
Input voltage Range	220/230/240Vac			208/220/230/240Vac	208~478Vac	208/220/230/240Vac	208~478Vac
Output voltage Range	200/208/220/230/240Vac ±1%			208/220/230/240Vac	208/220/230Vac	208/220/230/240Vac	240Vac
Dimension D×W×H (mm)	430x440x86.5	690x440x86.5		615x440x86,5(2U)	580x 443x131	615x440x86,5(2U)	580x 443x131
Net weight (kg)	13	24.6	25.5	23		25	



New PLUS RT III. Con cosine de Phi=1

UPS ONLINE - PLUS TM



The PLUS TM range is an ideal system for protecting critical systems, as it is an on-LINE VFI type power supply system (independent voltage and frequency).

With intelligent battery charging system (SENSICHARGER), it allows you to make a charge of batteries in an optimal way at all times. Your cold-start system allows your computer to be operational at any time.

The computer has management Software via RS232 port and USB, as well as the possibility of being able to enter it in network by means of an SNMP card. It also has the possibility of growth in parallel with the N + 1 system, with up to 4 equipment. For total safety, it has two ByPass, maintenance and automatic, which gives us a 100% reliability for any possible problem in the energy system of your company.



MODEL	Plus TM 6kVA	PLUS TM 10kVA S/H	Plus TM 15kVA	Plus TM 20kVA
Capacity (VA/Watts)	6k / 5.4k	10k / 9k	15k / 13.5k	20k / 18k
Input voltage Range	Media carga (190 ~ 520)±5 Vac Carga completa (277 ~ 520)±5 Vac			
Output voltage Range	208/210/220/230/240Vac			
Dimension D×W×H (mm)	580×262×455(H) / 580×262×732(S)		580×262×628	
Net weight (kg)	25 (H) / 73 (S)	25.5 (S) / 74 (H)	38.5	39

- ▶ System ON LINE double conversion typology VFI
- ▶ Voltage-Independent Frequency
- ▶ Powers between 6-20kVA
- ▶ Extended autonomy possibility (up to 4 packs)
- ▶ Possibility of growth in power by means of the N + 1 system of parallel positioning up to 4 ud.-
- ▶ SENSICHARGER Battery Charging System
- ▶ High performance (>96%)
- ▶ High frequency IGBT Technology
- ▶ Management software
- ▶ RS232 and USB Communication port
- ▶ ByPass
- ▶ Possibility of adapting SNMP/DRY Contact network cards/Relays
- ▶ Emergency EPO System
- ▶ Available in various voltages 110v/60hz for different countries (request information)



UPS ONLINE - ENEO



The ENEO* range is for its features, the perfect solution to protect critical installations such as server rooms, hospital centers, etc...

Its small size, current and robust design, efficiency, high performance and TFT screen in Spanish and color makes it one of the most demanded equipment in the market.

With the growth of this range to the 200kVA, makes it one of the most complete series of the market.

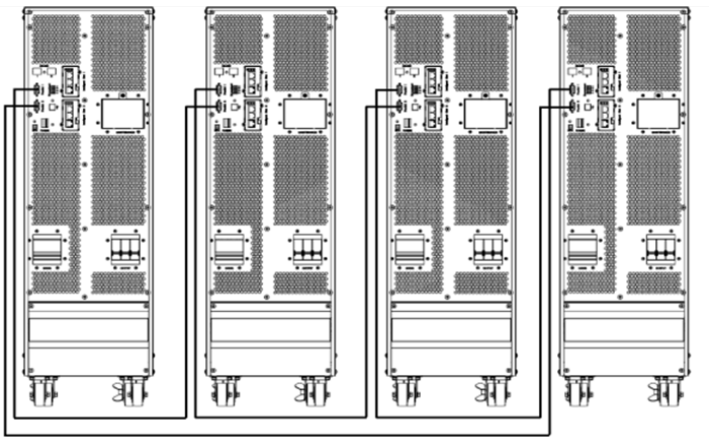
Cosine of Phi = 1. The ENEO range grows and from 50kVA to 200kVA establishes a cosine of Phi = 1 which makes it one of the reference equipment in the market in this range of powers, because of its high efficiency and overall performance.



- ▶ Online double Conversion
- ▶ Modern and robust design
- ▶ Double Feed input
- ▶ TFT display in Spanish for system control
- ▶ Null transfer time
- ▶ PFC Technology
- ▶ Total control digital (DSP)
- ▶ Power factor at output of 0.9
- ▶ THDI <3%
- ▶ ECO function
- ▶ Charger/rectifier/inverter with digital control technology
- ▶ Input voltage range 208-478 Vac
- ▶ Input frequency range 45-66Hz
- ▶ Cold start option
- ▶ Possibility of carrying out battery tests from the display
- ▶ USB/Rs232/RS485 communication port/parallel port/dry contact
- ▶ SNMP/Relay Card
- ▶ Doble Display LCD/LED
- ▶ Intelligent Battery Charging System
- ▶ EPO function
- ▶ Common Battery Rack
- ▶ The output can withstand a 100% imbalance in the load

Model	ENEO 10 kVA	ENEO 15 kVA	ENEO 20 kVA	ENEO 30 kVA	ENEO 40 kVA	ENEO 60 kVA	ENEO 80 kVA	ENEO 100 kVA
Capacity (VA/Watts)	10kVA/9kW	15kVA/13,5kW	20kVA/18kW	30kVA/27kW	40kVA/36kW	60kVA/60kW	80kVA/72kW	100kVA /100kW
Input voltage Range	380/380/415 VAC							
Output voltage Range	380/380/415 VAC							
Dimension D×W×H (mm)	828x250x868	828x250x868	828x250x868	828x330x920	828x330x920	828x250x868	828x360x868	850x1100x442
Net weight (kg)	95/42	147/45	170/60	225/67	72	118	122	190

* Available up to 200kVA



SAI ENEO. Parallel disposition.

UPS ONLINE - QUALITY



The QUALITY range of INNOVA Seguridad Eléctrica, S.L. It is a range of high performance with a range of powers from 10 to 500kVA with the possibility of parallelize up to 4 units and one more in redundant disposition to give greater security to the system.

This range, due to its modular concept, is being especially appreciated by the segment of the maintenance companies for its ease in the resolution of incidents.

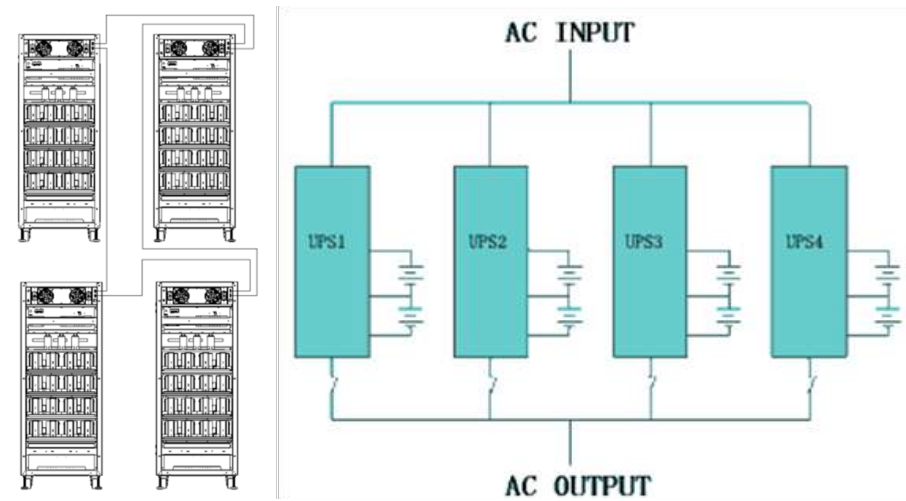
It is a range that has grown from existing 200kVA to current 500kVA.

Due to its characteristics ($\cos \phi = 0.9$, high performance, versatility, efficiency higher than 95%, $\text{THDI} \leq 2\%$), makes it the ideal equipment for large installations and critical sites such as CPD's, hospitals, airport infrastructures, etc.



- Control of the equipment under DSP system
- Possibility of parallel or parallel/redundant disposition up to 4 units
- Wide range of input voltage and frequency
- Easy operation with LCD display
- Range of powers from 10 to 500kVA
- Robust and simple equipment with a modern design
- FP: 1 and low input distortion
- Output power factor 0.9 or 1
- Double feed input from 30kVA
- ECO Mode
- Common or single battery rack
- Wide range of programmable battery voltage (+192VDC to + 240VDC)
- Intelligent three-level battery charging mode with optimal current settings
- Admits protocol MiniDriver/Modbus
- Battery charger up to 130A
- Versatile communication interface for different applications
- Equipment overload capacity up to 100%
- Control and monitoring software, with the possibility of communication via SNMP, dry contact card

MODEL	QUALITY 100 HE	QUALITY 120 HE	QUALITY 160 HE	QUALITY 200 H	QUALITY 250 H	QUALITY 300 H	QUALITY 400 H	QUALITY 500 H
Capacity (VA/Watts)	100k / 90k	120k / 108k	160k / 144k	200k / 180k	250k / 225k	300k / 270k	400k / 360k	500k / 450k
Input voltage Range	380/400/415Vac							
Output voltage Range	380/400/415Vac							
Dimension D×W×H (mm)	850×600×1600				850×600×2000		1200×600×2000	
Net weight (kg)	288	290	371	380	541	575	842	970



UPS QUALITY. Parallel disposition

UPS ONLINE - MQUALITY

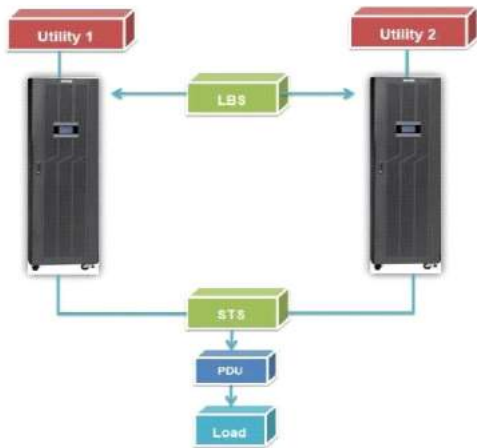


The MQUALITY range of INNOVA Seguridad Eléctrica, S.L. is a series that, by range of powers and characteristics, is the ideal choice for the protection of essential critical systems such as hospital enclosures, infrastructures (airports, stations of Train...), CPD's

With reduced dimensions and great power capacity per square metre (504MW/M2), in addition to its versatility and easy maintenance (all elements are hot-swappable and redundant), makes you one of the most demanded equipment on the market.

It has a new version with cosine of $\Phi = 1$, and high efficiency (96.5%), which makes it one of the most profitable investments in maintenance cost (MTTR<5' y="" mTBF="">1,000,000 hours), and in time amortization for its different design features, employing ecological design systems and energy saving systems.

Therefore MQUALITY is the ideal choice for the protection of your systems.



- ▶ High reliability, with a double conversion system with 3-level inverter typology
- ▶ Centralized parallel system in a Distribution control module, hot swappable
- ▶ Efficient. Equipment with an efficiency of up to 96.5%
- ▶ Hot swappable Modules
- ▶ Simple and intuitive display
- ▶ Intelligent Sleep Mode System. Energy saving system when the equipment does not require activity
- ▶ GREEN Test Mode. System that eliminates unnecessary energy
- ▶ Monitoring and remote Control options
- ▶ DDesigned with components that allow you to work in extreme conditions (dust, saline conditions or undesirable environments) where your components do not lose their properties even when they are above 40 °
- ▶ 15a Charger per module
- ▶ Low level of harmonics and advanced PFC
- ▶ Low maintenance cost
- ▶ High power density per m2. (504MW/M2)
- ▶ Efficient service concept. Designed for efficient and easy maintenance
- ▶ THD<2,71%
- ▶ MTBF: 100.000 Hours
- ▶ MTTR< 5 min
- ▶ Redundant design. System designed with a redundant concept to avoid failures and problems

MODELO		MQUALITY 3300									
		60k	100k	200k	250k	300k	400k	520k	800k	1040k	1560k
Capacity (VA/Watts)	UPS cabinet	10-60KVA 9-54KW	10-100KVA 9-90KW	10-200KVA 9-180KW	250k/225KW	300k/270KW	400k/360KW	520k/468KW	800k/720KW	1040k/936KW	1560k/1404KW
	HPM module	10KVA/9KW, 15KVA/13.5KW,20KVA			25k/22.5KW	30k/27KW	40k/36KW-				
Input voltage Range		380/400/415Vac (3Ph+N+PE)									
Output voltage Range		380/400/415Vac, (3Ph+N+PE)									
Dimension D×W×H (mm)	UPS cabinet	600×840×1400		600×840×2000	600×1100×2000		1200×860×2000		3000×860×2000		4800×1100×2000
	HPM module	580x443x131 (3U)									
Net weight (kg)	UPS cabinet	145	170	230	290	310	750	860	1600	1810	2800
	MQUALITY module	10kVA/26; 15kVA/30kg; 20kVA/31kg			6kVA/23kg; 10kVA/25kg;					10kVA/26; 15kVA/30kg; 20kVA/31kg	



HIGH POWER STABILIZERS



Faults in the lines, atmospheric phenomena, continuous load variations and disturbances generated by the same users, do not allow to guarantee to each device a constant voltage that is within the tolerance range Provided by the supply contracts. That tolerance is often insufficient for the most sensitive devices. Other times, the network voltage reaches levels exceeding 15, 20 and up to 30% the expected nominal value.

Voltage fluctuations are particularly problematic distortion elements, as they are not evident and can only be detected by the use of specific instruments. In their presence, electrical devices seem to retain a state of correct functioning that sometimes hides serious problems, at times irreparable.

The range of voltage stabilizers of INNOVA Seguridad Electrica, S.L. constitutes the reliable, tested and economical solution for the damage caused by voltage fluctuations. The use of these equipment is a real investment, because eliminating service problems means lowering costs and increasing productivity. With a range of the most complete ranging from 1000VA to 2500kVA makes it the ideal solution to your stress problems..

- ▶ High-end voltage input 160/260/275/450 VAC
- ▶ High Speed Controller
- ▶ High Efficiency 97%
- ▶ Overload and phase loss protection
- ▶ Automatic input and Bypass switch
- ▶ On-line indications of output voltage, current and frequency
- ▶ Robust design with high stability and reliability
- ▶ Electrical output without distortion
- ▶ 2 years warranty
- ▶ ISO 9001:2000, ISO14001, OHSAS 18001
- ▶ 10 Years warranty on spare parts and service

AVR PHASE STABILIZER



INNOVA Seguridad Electrica, S.L. It presents the range of AVR* stabilizers from 500VA to 30 KVA. AVR Series Single-phase servomotors are electronically controlled equipment by a logic that provides protection against surges and high peaks of the input power supply, eliminating line noises and Stabilizing the output voltage up to $\pm 3\%$ of the voltage required to feed critical loads without distortion in the output waveform.

They have an electronic control system that prevents blocking, magnetotermic protection of input and contactor output, protection against surges, short circuit, etc. and stabilization of the output voltage typical to $\pm 3\%$.



MODEL	AVR-500M	AVR-1000M	AVR-1500M	AVR-2000M	AVR-3000M	AVR-5000M	AVR8000M	AVR-10000M
Capacity	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10000VA
Input voltage Range	115~290Vac							
Output voltage Range	180~260Vac							
Dimension DXWXH (mm)	200x150x140		200x160x190		280x200x220		410x380x310	
Net weight (kg)	2.3	3.3	4.0	4.9	6.8	8.6	13.5	15.5

* AVR range available up to 30kVA

THREE-PHASE SVC STABILIZER

The SVC series of INNOVA Seguridad Electrica, S.L. is a Servo motor type automatic voltage stabilizer designed with the most advanced technology of the market and with electronic control by microprocessor.*

This range offers a protection against high voltage surges and peaks of the electrical grid without deforming the output wave, allowing a variation of ± 25% input and stabilizing the output voltage within a margin of ± 3% to feed any critical load with a pure sine voltage completely controlled, clean and stabilized.

Ideal equipment for its constitution, design and robustness.



THREE-PHASE SBW STABILIZER

SBW de INNOVA Seguridad Electrica, S.L. It is an automatic voltage stabilizer SERVO motor type designed with the most advanced technology of the market and with electronic control by microprocessor.

This range offers a protection against high voltage surges and peaks of the electrical grid without deforming the output wave, allowing a variation of ± 25% input and stabilizing the output voltage within a margin of ± 1% to feed any critical load with a pure sine voltage completely controlled, clean and stabilized.

Equipment equipped with a phase-to-phase control system and a ByPass system (from 100kVA). Ideal for its constitution, design and robustness.



MODEL	SVC33-9000	SVC33-15000	SVC33-20000	SVC33-30000
Capacity	9000VA	15000VA	20000VA	30000VA
Input voltage Range	208~502Vac			
Output voltage Range	330~430Vac			
Dimension DXWXH (mm)	435x395x770		505x455x800	
Net weight (kg)	53.0	59.0	85.0	105.0

* SVC range available up to 100KVA

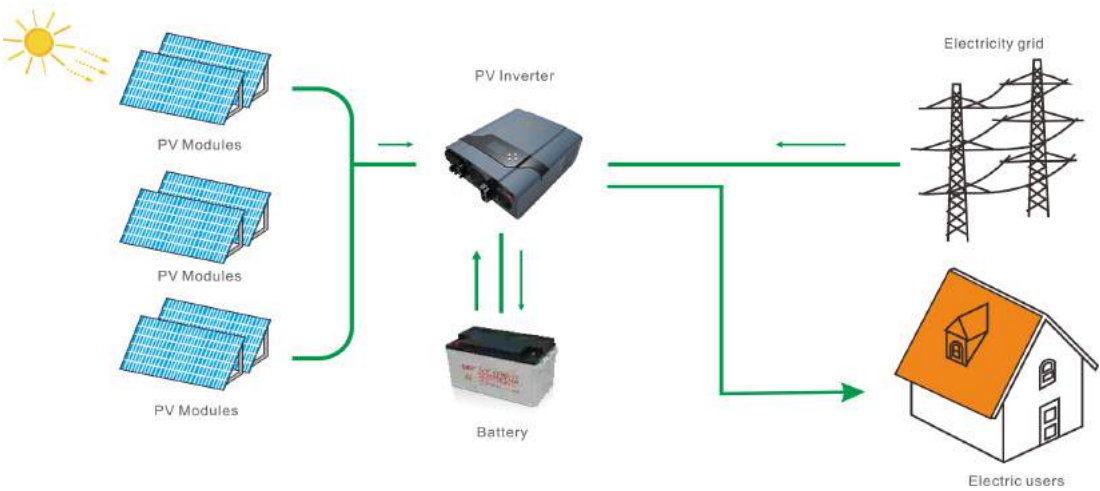
Modelo		SBW													
		10K	15K	20K	30K	50K	60K	80K	100K	120K	150K	180K	200K	225K	250K
	Power	10KVA	15KVA	20KVA	30KVA	50KVA	60KVA	80KVA	100KVA	120KVA	150KVA	180KVA	200KVA	225KVA	250KVA
	Max. Output intensity	15A	23A	30A	45A	76A	91A	121A	152A	182A	227A	273A	303A	341A	379A
	Weight Kgr	170	175	185	250	300	390	410	430	500	530	580	600	680	700
	Dimension LxAxH (mm)	570x700x1250						620x800x1440				800x1000x1850			
	Input voltage	3x400Vac (ajustable) ± 25% + Neutro + Tierra (± 30% opcional)													

SP RANGE INVERTERS



Our ISP range is a range of hybrid sine wave inverters, which combines the function of inverter, solar charger and network charger, supplying non-cut power for a very high time.

Your LCD display shows the status of the system, as well as the most common parameters for good operation in a simple and intuitive way.



- ▶ Modern look with a high quality connector easy to install
- ▶ High-frequency switching technology with compact size and reduced weight
- ▶ Power Factor 1
- ▶ Built with a solar charge controller with PWM/MPPT technology to optimize its utilization power
- ▶ High efficiency in DC-to-AC conversion to minimize energy losses
- ▶ Your standby charge mode allows you to charge the battery even when the unit is off
- ▶ Intelligent Ventilation System Control
- ▶ Isolated input and output for maximum operational protection
- ▶ Intuitive display with the main operating functions of the equipment
- ▶ Ideal for home applications, offices, lighting equipment, engine-based systems (fans, air conditioners, etc...)
- ▶ Protections: low input voltage, overload, short circuit, low battery alarm, input over-voltage, over-temperature
- ▶ Flexible installation. Possibility of installation in a Rack or wall

MODEL	ISP 1kVA	ISP 1.5kVA	ISP 2kVA	ISP 3kVA	ISP 5kVA
Capacity (KW) / KVA	(0.8 / 1) / 1	(1.2 / 1.5) / 1.5	(1.6 / 2) / 2	(2.4 / 3) / 3	(4 / 5) / 5
Input voltage Range (VDC)	12/24	12/24	24	24/48	48
Output voltage Range	230 Vac				
Dimension D×W×H (mm)	105×288×345			580x262x732	518x355x111
Net weight (kg)	6.2 / 6.0		25.5	62 / 18	11.6



SG RANGE INVERTERS



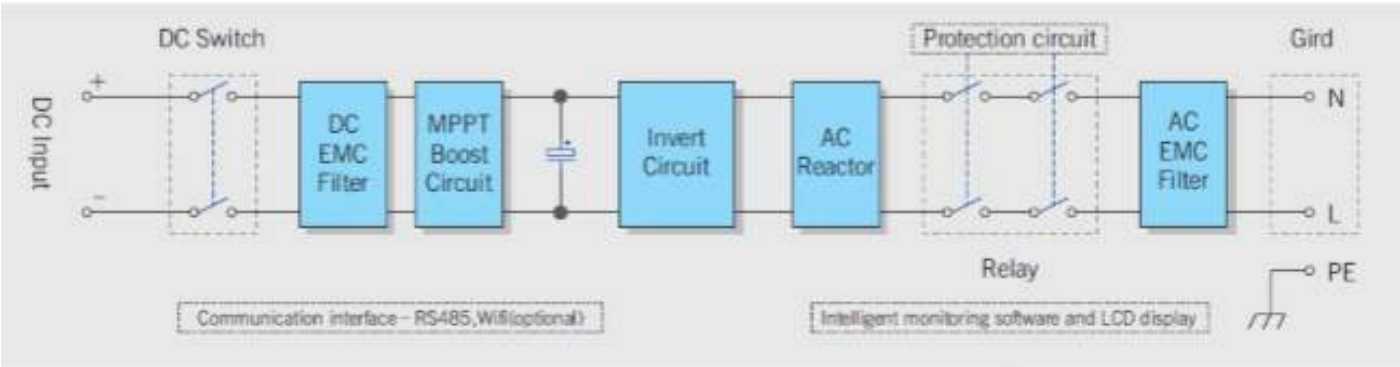
The ISG Solar inverter range is a range of single-phase inverters and is the ideal solution for rooftop solar system solutions.

Due to its high efficiency and reliability features, together with its compact and easy-to-install design, it makes it the ideal equipment for your power distribution system.



- ▶ Compact design
- ▶ Designed in IP65 protection
- ▶ Provided with one or two MPP trackers depending on the different applications for which it is conceived
- ▶ Upgradable firmware via RS232 port
- ▶ Parallel up to 50 units via RS485 port
- ▶ Compatible with the latest VDE AR N4105 standard Standards
- ▶ MPP Efficiency > 99.9%
- ▶ Maximum efficiency > 97.5%
- ▶ LCD display
- ▶ Various communication options, such as RS485, RS485/WiFi and Ethernet/WiFi, which will respond to any requirement on your part
- ▶ Monitoring software, offers the operative State as well as power generation data

Circuit diagram.



MODEL	SG-10K	ISG-12K	ISG-15K	ISG-17K	ISG-20K
Capacity(KW) / KVA	11.5KW	13.5KW	16.5KW	18.5KW	22.5KW
Input voltage Range	620Vdc				
Output voltage Range	400Vac				
Dimension D×W×H (mm)	553 x 715x 228				
Net weight (kg)	35		39		

DESIGN

- Protection IP65
- Doble MPPT
- Easy Installation
- Digital controller
- Alta eficiencia hasta 98.0%
- Voltaje máximo de PV hasta 1000V
- Controlador de potencia reactiva
- Más pequeño y más ligero

CERTIFICATION

- TUV
- CE
- VDE 0126
- PEA/MEA
- IEC 62109
- IEC 61000
- IEC 61727
- IEC 61683
- IEC 62116

IGL RANGE INVERTERS



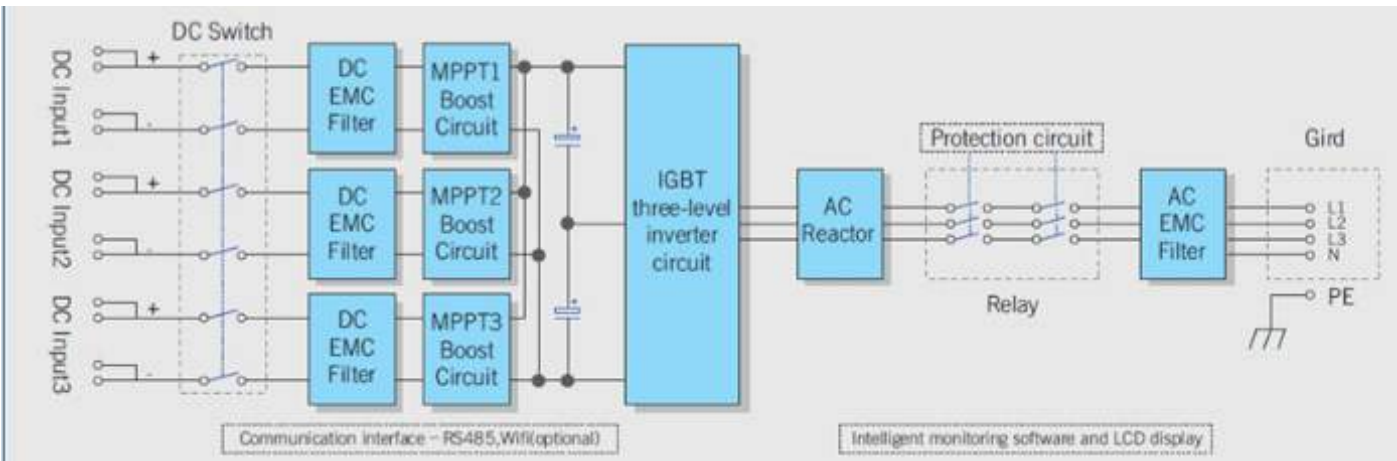
The range of IGL inverters is a range of three-phase inverters in centralized disposition and designed for large solar plant projects.

Its characteristics with transformer, high efficiency and low cost, makes it ideal for the design of large solar plants.

On demand the output transformer is optional.



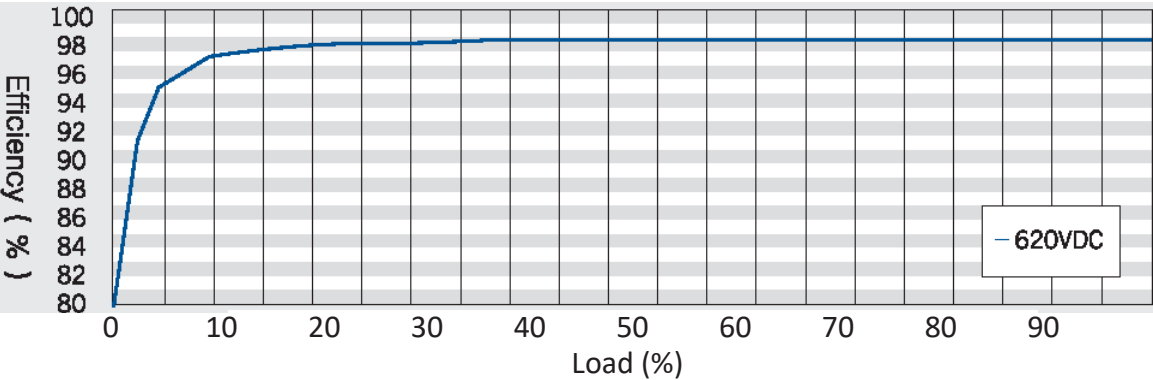
Circuit diagram.



- ▶ Over 25 years of average life
- ▶ MPPT Efficiency > 99%-maximum efficiency > 98.2%-European efficiency > 97.5%
- ▶ Transformer Design increases reliability
- ▶ Fan speed control design to minimize system power consumption and increase electricity generated
- ▶ Night Energy consumption < 10w
- ▶ EThe design of redundantly-shaped control circuits and oversized metallized film capacitors are used to ensure safe and reliable operation of the system
- ▶ REACTIVE POWER Adjustable
- ▶ Unique function of Low voltage Ride Through (LVRT), anti-island and protection of an abnormal voltage in output that ensures a correct operation of the equipment
- ▶ Its advanced DSP Control system makes the data more accurate
- ▶ Wide variety of communication interfaces
- ▶ Functions for perfect protection
- ▶ Display with a lot of information for easy maintenance, messages and reading states, etc.
- ▶ Modular design for easy change and replacement
- ▶ Optional output transformer to increase output voltage from 270VAC to 380/400/415VAC
- ▶ TUV Certificate

MODEL	IGL 30k	IGL 50k	IGL 60k
Capacity (VA/Watts)	1000 / 3900	1000 / 6500	1000 / 7800
Input voltage Range	620Vdc		
Output voltage Range	400Vac		
Dimension D×W×H (mm)	636×958×260		
Peso neto (kg)	61	68	70

Efficiency curve



Software



In an increasingly technologically intercommunicated world, communication and management systems become essential and necessary for the simplest and most everyday actions of our day to day.

In recent years the development of systems that allow us to encompass, for example, uninterrupted power systems as an element of the network, controlling the same in remote or manipulating them from a mobile phone, make the UPS stop be isolated equipment of our underutilized network to become a real-time protection element, by means of which we can program sequential shutdowns of our servers, to carry out battery tests, to monitor the possible disturbances of Our electrical network, and all this in a simple way.

- UPSilon 2000/Muser 1000/Muser 3000/Muser 4000.
RS-232 monitoring and control Software
- Management software under SNMP USB and RJ45 communication environment
- RS232 Communication Cards – AS400 – SNMP – Dry Contact

Different management systems for countless applications.

DRY CONTACT CARD

Through our DRY Contact card you will be able to integrate into small power equipment:

- As fault alarms of your system, general fault, low battery, as well as if the UPS is running or shutting down.

Or in teams of great powers:

- UPS en Bypass
- Low battery
- UPS in ripple mode and network failure.



SNMP CARD

By means of this card you will be able to integrate the UPS as if it were one more element of the network.

You will have the possibility to manage it remotely by accessing it by means of an established IP address. This software will allow you to be informed of what happens to your ups at all times and will facilitate the work control.



RELAY CARD

This card allows us to generate alarms for potential-free contacts.

It is used to provide signals from the internal UPS state to the outside or to control peripheral devices according to the state of the UPS in the form of dry contacts.

It has a contact interface on its internal part, which is inserted in the same slot of the UPS SNMP.



REMOTE MONITORING PANEL

Through this device you It can remotely and by means of a synoptic identical to that of its UPS, to control its equipment, to program it, etc...

Through this device you You can control more than 200 parameters of your computer and manage them remotely without having to be physically in the location of the computer



INNOVA Seguridad Electrica, S.L. is a company dedicated entirely to the treatment and protection of electrical energy.

Our technical staff has more than 20 years of experience in this market.

INNOVA Seguridad Electrica, S.L. can offer you a wide range of solutions for the maintenance of your electrical system.

- » Do you have the certainty that your UPS system is working properly?
- » Are the batteries in perfect condition?
- » is the location of your team correct?
- » Does the entire monitoring system deliver the full reports?
- » Are the power circuits and filter capacitors performing their function?
- » Do you know the cost of your computer infrastructure to have the UPS in bad condition?

TECHNICAL SUPPORT

For Spain
24h support

Telf: +34 91 608 84 11

Fax: +34 91 173 96 93

sat@innovaups.com



INNOVA Seguridad Electrica, S.L. offers its new maintenance services for the prevention of its systems. We have the following formats:

► PREVENTIVE

This is a preventative maintenance contract for the prevention of your uninterruptible power supply (s) (see Conditions and options).

► CORRECTIVE

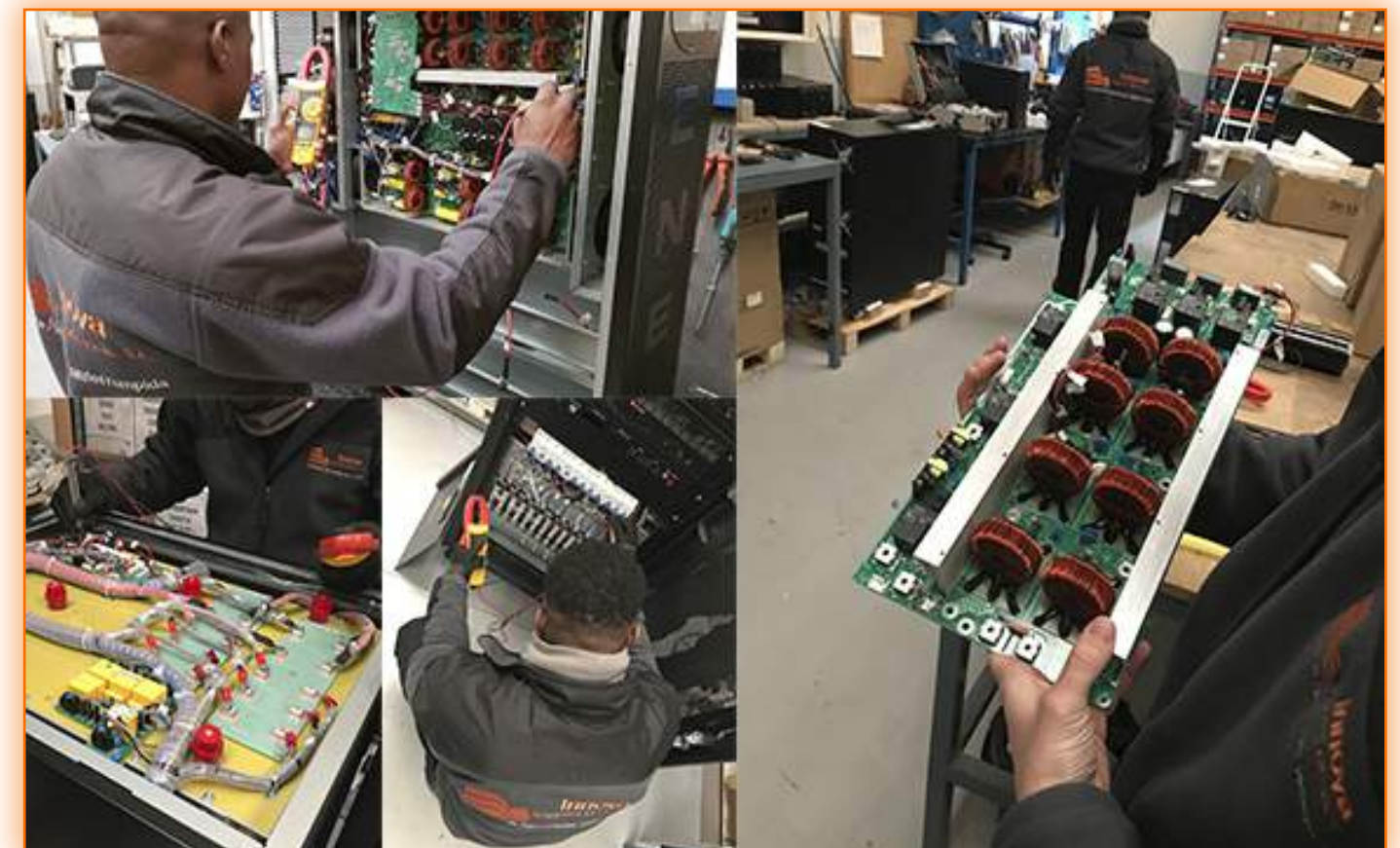
It is a corrective preventive contract, in which it is added in addition to the previous one that are corrected in the visit the possible errors that occurred in its/s system/s.

► ALL RISK

This is a maintenance contract in which you It pays for an Integral maintenance service. This mode of contract allows you with a fixed cost, to be able to have the tranquility that your/s system/s will always be in perfect state of service

► ALL RISK WITH REBUY

Long-term contract system in which we are in charge of replacing your equipment with the cost of an annual maintenance and in this way to ensure that your company always has a modern and new park of uninterruptible power supply systems (UPS).





your choice

INNOVA SEGURIDAD ELECTRICA, S.L.

Parque empresarial NEINOR - HENARES

C/ La Venta, 2 - Edificio 9 - Nave 5 - 28880 Meco (Madrid)

Telf: 91 608 84 11 - Mail: Info@innovaups.com - Fax: 91 173 96 93

Empresa asociada a:

