CATALOGO



GRUPPI DI CONTINUITA' MONOFASE & TRI/MONOFASE







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THE COMPANY

SHT-POWER sas is one of the leading companies in the design and production of power system, is part of an international group, with one of the most important organization in the industry. Precursors in the application of the microprocessor in the multifunctional UPSs and design solar power UPS, one of the first companies to acquire the EN ISO 9001. Production in Italy and Asia, with SHANDY and EPC brand.

THE ACTIVITY

SHT-POWER designs and manufactures uninterruptible power supply units (UPS) in all specific areas:

CED, TELECOMMUNICATION SYSTEM OPERATING ROOM, AUTOMATION SYSTEMS, AIRPORTS, ELECTRICAL CENTERS, INDUSTRIES, ETC

RANGE OF PRODUCTS

The range of products, ranging from 300VA to 400VA (from 10kva to 400kva in parallel up to 8 units), SHT-POWER offers a solution to every problem while also providing CUSTOM solutions on specific request; produces also Frequency Converters, Stabilizers, DC-AC Inverters for Solar and AD-DC Power Supplies.

PRODUCTS WITH EPC LOGO

- UPS interactive with AVR, telephone line protection, control and shutdown program, powers from 450 to 2000 VA
- UPS interactive sinusoidals, with AVR line telephone protection, control and shutdown program, poker from 750 to 2000 VA.







- On-line UPS double conversion, controller by a microprocessor, Power Factor Corrector (PCF) in input, control and shutdown program, power from 1000 VA to 10 KVA
- AC/DC Inverter, input 12, 24, 48, 110 Vdc, output 230 Vac, power 150W ÷ 7000W
- AC/DC CONVERTER AND BATTERY CHARGER input 115, 230 Vac, Output 12, 24, 48, 110 Vdc.

FREQUNCY CONVERTERS

- Single-phase/single phase, 50/60 Hz Frequency converter,
- three phase/single phase three phase/three phase with fixed voltage with powers from 1KVA to 300 KVA
- single phase 50/60Hz frequency converter with variable output voltage 0/270V from 20 to 30A
- three phase/ single phase 50/60 Hz frequency converter with variable output voltages from 30 to 65 A
- three phase/ three phase 400Hz frequency converter with output voltage 115Vza

SHANDY LOGO PRODUCTS: MEDIUM AND BIG POWER UPS, ONLINE DOUBLE CONVERSION

- single phase/single phase UPS with powers $10kVA \div 30kVA$
- three phase/single phase UPS with poker 10 kVA, 30 kVA

- three phase/three phase UPS with powers $10kVA \div 400kVA$

STABILISERS

- Electronical and electromechanical singlephase 300 to 10 KVA
- three-phase electromechanics, power from 6 to 500.KVA

TECHNICAL ASSISTANCE CENTERS

SHT POWER offers its customers, their SERVICE network in all regions of Italy, providing a 24h telephone and on-side service







EV - VENUS EIML – IMALAIA

to sinuisodal wave and sinusoidal simulated INTERACTIVE Static UPS









450 - 650 - 850 VA



1000 VA



1500 - 2000 - 3000 VA

UPS Line Interactive single phase Sinusoidal Simulated wave EV – VENUS

The EV – VENUS series is available from 450VA to 3000VA power with digital technology; This serie is suitable for powering any electrical and electronic system, in case of electricity supply interruption by the inverter or sudden change in voltage by AVR

FEATURES

- Compact Size
- Excellent microprocessor control guarantees high reliability
- Network Stabilization with AVR System
- Auto-restart when returns the network
- Simulated sine wave
- Battery charging in operation also when the UPS is off
- Cold start function
- USB communication port RJ-11 telephon protection port

COMMUNICATION

Software for all operating system and network environments

24 MONTHS WARRANTY

RECOMMENTED TO PROTECT:

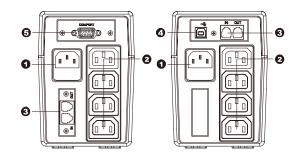
Pc, automation machines











- 1 Input Network Connector 3 RJ11 Connector 5 RS232
- $\begin{array}{l} 2-Output\ Connector \\ 4-USB \end{array}$

EV (VENUS) 450/650/850 LINE INTERACTIVE UPS

MODEL	EV 450	EV 650	EV 850		
POWER	450 VA / 240 W	650 VA / 360 W	850 VA / 480 W		
INPUT					
Voltage	110/120 VAC or 220/230/240 VAC				
Voltage Range	8	81-145 VAC / 162-290 VA	AC		
Frequency Range		60/50 Hz (auto setting)			
OUTPUT					
AC Voltage regulation (Batt. Mode)		±10%			
Frequency tolerance (Batt. Mode)		$60 \text{ Hz o } 50 \text{ Hz } \pm 1 \text{ Hz}$			
Tranfer time		2-6 ms, 10ms max.			
Wave form (Batt. Mode)		Simulated sine wave			
BATTERY					
Type & quality battery	12 V/4.5 AH x 1	12 V/7 AH x 1	12 V/9 AH x 1		
Backup time (1 PC charged @ 120 W)	5 min.	10 min.	15 min.		
Typical recharging time	4-6 hou	ers for recharging to 90% of	capacity		
INDICATORES					
AC Mode		Fixed green led			
Battery Mode		Intermittent green led			
PROTECTION					
Full Protection	Overload of po	ower, discharge and overcha	arge of batteries		
ALARMS					
Battery Mode		Sound every 10 seconds			
Low battery		Sound every second			
Overload		Sound every 0.5 seconds			
Battery replacement Alarm		Sound every 2 seconds			
Fault	Continuous sound				
DIMENSIONS AND WEIGHTS					
Dimensions, P x L x H (mm)	287 x 100 x 142				
Net weight (kg)	3,55	4,25	4,9		
ENVIRONMENTAL DATA					
Humidity	0-90 % RH @ 0-40°C (without condensation)				
Noise level	< 40dB				
INTERFACE					
USB/RS-232 Port	Supports Window	s 98 SE/ME/NT 4.x/2000/2	003/XP/Vista/2008		

^{*} Product specifications may be subject to change without notice















EV (VENUS) 1000/1500/2000 LINE INTERACTIVE UPS

MODEL	EV 1000	EV 1500	EV 2000	
POWER	1000 VA / 600 W	1500 VA / 900 W	2000 VA / 1200 W	
INPUT				
Voltage	110/120 VAC or 220/230/240 VAC			
Voltage Range	81-145 VAC / 162-290 VAC			
Frequency Range		60/50 Hz (auto setting)		
OUTPUT				
AC Voltage regulation (Batt. Mode)		±10%		
Frequency tolerance (Batt. Mode)		60 Hz o 50 Hz ±1 Hz		
Tranfer time		2-6 ms, 10ms max.		
Wave form (Batt. Mode)		Simulated sine wave		
BATTERY				
Battery Type & quantity	12 V/7 AH x 2	12 V/9 AH x 2	12 V/9 AH x 2	
Backup time (1 PC charged @ 120 W)	30 min.	40 min.	50 min.	
Typical charging time	4-6 hour	s for recharging to 90% of capa	acity	
INDICATORS				
AC mode	Green led on & from 2° to 5° green leds light up gradually indicating the load level			
Battery mode	Yellow Led Intermittent	Yellow Led Intermittent & fr turn off gradually indicating		
Fault	Red Led On	Red Led	On	
PROTECTION				
Full Protection	Power's overlo	oad, discharge and overcharge	of batteries	
ALARMS				
Battery mode		Sound every 10 seconds		
Low Battery		Sound every second		
Overload		Sound every 0.5 seconds		
Battery to be replaced		Suono ogni 2 secondi		
Fault		Continuous sound		
DIMENSIONS AND WEIGHT				
Dimensions, P x L x H (mm)	350 x 146 x 160 397 x 146 x 205			
Net weight (kgs)	8,0 11,1 11,5		11,5	
ENVIRORMENTAL DATA				
Humidity	0-90 % RH @ 0-40°C (without condensation)			
Noise	< 40dB			
ITERFACE				
USB/RS-232 Port	Supports Windows 98 SE/ME/NT 4.x/2000/2003/XP/Vista/2008			

^{*} Product specifications may be subject to change without notice











EV (VENUS) 3000 LINE INTERACTIVE UPS

MODEL	EV 3000		
POWER	3000 VA / 1800 W		
INPUT			
Voltage	220/230/240 VAC		
Voltage Range	162-290 VAC		
Frequency Range	60/50 Hz (auto setting)		
OUTPUT			
Voltage	220/230/240 VAC		
AC Voltage regulation (Batt. Mode)	±10%		
Frequency tolerance (Batt. Mode)	60 Hz o 50 Hz ±1 Hz		
Tranfer time	2-6 ms, 10ms max.		
Wave form (Batt. Mode)	Simulated sine wave		
BATTERY			
Type & quantity of batteries	12 V/9 AH x 4		
Backup time (1 PC carico @ 120 W)	120 min.		
Typical charging time	4-6 hours for recharging to 90% of capacity		
INDICATORS			
Display LCD	On-line Function; Battery Function; Battery Level; Input and Output Volt; Overload; Fault; Low Battery		
PROTECTIONS			
Full Protection	Power's overload, discharge and overcharge of batteries		
ALARMS			
Battery mode	Sound every 10 seconds		
Low battery	Sound every second		
Overload	Sound every 0.5 seconds		
Battery to be replaced	Suono ogni 2 secondi		
Fault	Continuous sound		
DIMENSIONS AND WEIGHTS			
Dimensions, P x L x H (mm)	495 x 150 x 250		
Net weight (kgs)	25		
ENVIRORMENTAL DATA			
Humidity	0-90 % RH @ 0-40°C (without condensation)		
Noise	< 40dB		
ITERFACE			
USB/RS-232 Port	Supports Windows 98 SE/ME/NT 4.x/2000/2003/XP/Vista/2008		

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750 - 1000 VA

CONTROL CONTRO

1500 - 2000VA

UPS Line Interactive single phase Sinusoidal pure wave EIML – IMALAIA

The EIML – IMALAIA series is available from 750 VA to 2000VA power with digital technology; This serie is suitable for powering any electrical and electronic system, in case of electricity supply interruption by the inverter or sudden change in voltage by AVR

FEATURES

- The high quality of the microprocessor ensures high reliability
- Network Stabilization with AVR System
- Battery charger in operation also when the UPS is off
- Auto-restart when returns the Network
- Pure Sinusoidal
- Cold start function (ignition without net)
- Built-in protection for USB port and RJ-45

COMMUNICATIONS

Software for all operating system and network environments, UPSILON 2000 Supervision and shutdown platform

24 MONTHS WARRANTY

RECOMMENTED TO PROTECT:

Server, MT Switches (Medium Voltage Cabs), Security System















EIML (IMALAIA) 750/1000/1500/2000 UPS LINE INTERACTIVE SINUSOIDAL

MODEL	EIML 750	EIML 1000	EIML 1500	EIML 2000	
POWER	750 VA/ 525 W	1000 VA / 700 W	1500 VA / 1050 W	2000 VA / 1400 W	
INPUT					
Voltage		110/120 VAC or	220/230/240 VAC		
Voltage Range		81-145 VAC	/162-290 VAC		
Frequency Range		60/50 Hz (auto setting)		
OUTPUT			-		
AC Voltage regulation (Batt. Mode)		±.	5%		
Frequency tolerance (Batt. Mode)		50 Hz o 60	Hz ± 1 Hz		
Tranfer time		Typical 2-6 n	ns, 10ms max.		
Wave form in Batt. mode		Simulated	sine wave		
BATTERIES					
Type & quantity (Yuasa or CSB)	12 V / 9 AH x 1 pc	12 V / 7AH x 2 pcs	12 V / 9 AH x 2 pcs	12 V / 11 AH x 2 pcs	
Backup Time (Half Load)					
Typical recharging time		6 hours for recharging	to 90% of the capacity		
INDICATORES					
LCD Display	AC Mode, Battery Mode, Load Level, Battery Level, Input Volt, Output Volt, Overload, Fault, Low Battery				
PROTECTIONS					
Full Protection	0	verload of power, disch	arge and overload batteri	ies	
ALARMS		-			
Battery Mode		Sounds ever	ry10 seconds		
Low battery		Sounds ev	very second		
Overload		Sounds ever	y 0.5 seconds		
Batteries to be replaced		Sounds eve	ry 2 seconds		
Fault		Continuo	ous sound		
DIMENSIONS AND WEIGHTS					
Dimensions, P x L x H (mm)	350 x 146 x 160 397 x 146 x 205			46 x 205	
Net weight (kgs)	5,2	8,3	11,3	12,4	
ENVIRONMENTAL DATA					
Operating Humidity		0-90 % RH @ 0- 40°C	(without condensation)		
Noise		< 4	5dB		
INTERFACE					
	1				
USB Port	_		NT 4.x/2000/2003/XP/Vi	, (2 000	

^{*} Product specifications may be subject to change without notice







EG1 – GALAXY 1

double conversion to sinusoidal wave **ON-LINE Statics UPS**









UPS On-Line single phase Sinusoidal pure wave EG1 - GALAXY 1





The EGL – GALAXY series is available in the 1KVA to 10KVA power with On-Line double digital control conversion technology; This series, for its versatility, is suitable for powering any electrical and electronic system even in critical situation, as well as being able to use it as 50/60 Hz frequency converter or using power generators

FEATURES

• DOUBLE CONVERSION UPS

A real DOUBLE CONVERSION UPS that will provide a perfect current, for complete high quality protection for your sensitive devices, such as Network, Small Calculation Centers, Servers, Telecommunications,

Healthcare/Hospital Appliances and industrial application in general

• OUTPUT POWER FACTOR φ 1.0

Comparing this UPS ON-LINE line with current marketing competition, we can say that GALAXY UPSs have the best output power factor 1,0. They offer high performance and efficienty for critical applications.

•LARGE INPUT RANGE (110 V -300 V)

Galaxy is able to provide stable and clean current to the equipment also connected in very critical and unstable environments



1000 – 1500 - 2000 - 3000 VA 6 – 10 KVA







•PROGRAMMABLE OUTPUTS

With programmable outputs sockets, the user can easily control part of the load connected to the UPS. During power outages, this feature allows the user to increase battery autonomy and dedicate it to the exclusive protection of some critical appliances,

interrupting power supply to non-essential equipment.

Programmable sockets (P1) - connect non-essential devices



• 50/60 Hz FREQUENCY CONVERTER FUNCTION

Blocks the output frequency at 50Hz or 60Hz regardless of the input frequency and delates the By-Pass

• Emergency Power Off (EPO) FUNCTION

This function serves to the shutdown of the UPS from the staff in case of fire and other situation of emergency.

• SNMP+USB+RS-232 MULTIPLE COMMUNICATIONS

This function allows to use the communication from all USB, RS-232 and SNMP ports simultaneously.

• BATTERY CHARGER STUDIED FOR OPTIMIZE THE PERFORMANCE OF BATTERIES.

The GALAXY 1-3K series is equipped with a 2 steps battery charger for maximum autonomy. It also regulated the charging voltage according to working temperature. All these features have been designed to extend the life of the batteries assembled in the UPS.

. UPS GALAXY 6-20K are equipped with a 3 steps extensible battery charger to optimize battery performance. This feature extends the autonomy

and optimizes the battery recharging time, and the battery charge extension is also essential for recharging the batteries with the highest power used to gain long autonomy.

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

Manual By-Pass, ensures the lack of voltage inside of the UPS for maintenance, ensuring power to the connected equipment.

REDUNDANT PARALLEL FUNCTION FOR UPS FROM 6 TO 10K

The GALAXY 6 and higher poker can work in parallel redundant up to 3 units, which increate power capability, uninterrupted service safety.

• AVAILABLE ALSO IN THE 19"RACK MOUNTING VERSION

The series GALAXY offers also a range of UPS 1-3K in RACK 19" version, ideal for the "backup power protection solution" for servers, rescue systems, network equipment and others type of loads.

Power Factor Correction ON ALL THREE/SINGLE PHASE 10KVA TO 20KVA

The PFC improbe the quality of the absorbed current and increases the energy yeld, with the consequent economics saving.

COMMUNICATION

Software for all operating systems and network environments, VIEWPOWER – VIEWPOWER PRO Supervision and Shutdown platform.

WARRANTY 24 MONTHES















	EG1 (GAI	_AXY1) - 1K/1.5K/2K	/3K monofase O	NLINE UPS DOU	JBLE CONVER	RSION
MODEL	•	•	EG1 1K (S)	EG1 1.5K (S)	EG1 2K (S)	EG1 3K (S)
POWER			1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W	3000 VA / 3000 W
INPUT			'		I.	1
		T 1:	160 VAC / 140 VAC / 1	20 VAC / 110 VAC ± 5 % o	or 80 VAC / 70 VAC / 60	0 VAC / 50 VAC ± 5 %
		Low line transfer	(Based on load	d percentage 100% - 80 %	/ 80 % - 70 % / 70 - 60 9	% / 60 % - 0)
Voltage Ran	ge	Low line comeback		175 VAC ± 5 % or	85 VAC ± 5 %	
		High line transfer		300 VAC ± 5 % or	150 VAC ± 5 %	
		High line comeback		290 VAC ± 5 % or 1	145 VAC ± 5 %	
Frequency R	ange			40 Hz ~ 7	0 Hz	
Phase				Single phase w	ith ground	
Power Facto	r P.F.			≥ 0.99)	
OUTPUT						
AC Voltage	regulation (Batt.	Mode)		± 3%		
	ange (Synchroniz			47.5Hz ~ 52.5 Hz or		
	ange (Batt. Mode			50 Hz ± 0.25 Hz or	60Hz + 0.3 Hz	
Current Cres		,		3:1		
				≥ 2 % THD (Li	near Load)	
Harmonic D	stortion			$\geq 4\%$ THD (no-		
		AC Mode to Battery Mode		Zero		
Transfer Tin	ie	Inverter to Bypass		4 ms (Typ	pical)	
Wave Form	(Batt. Mode)			Pure sine		
EFFICENC	· /			Ture since		
AC mode			~ 89%			
Battery Mod	ρ.			~ 90%	-	7170
BATTERY	<u> </u>			70 /	U	
DATTERT		Battery Type	12 V / 7 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah
		Numbers	3	3	6	6
Standard Mo	dal	Typical recharging time	3	4 hours to 90%		U
Standard MC	uei	Charging current (max.)		Default 2 A max		
			41.037			DC ±1%
		Charging Voltage	41.0 V	DC ± 1%	82.1 VI	DC ±1%
		Battery Type	It depends on the	capacity of the external batt	eries according to the rec	quired autonomy
(S) long run	Model	Numbers			_	•
		Typical charging time	41.037	Default 2 A max		D.G. 10/
		Charge current (max.)	41.0 V	DC ± 1%	82.1 VI	DC ±1%
INDICATO	RS					
LCD Panel			UPS Status, Load Le	vel, Battery Level, Input/Ou	tput Voltage, Bounce Ti	me, Fault Condition
ALARMS						
Battery mode	e			Sounds every :		
Low battery			Sounds every 2 sconds			
Overload				Double sound ev	•	
Fault			Continuous sound			
DIMENSIO	NS E WEIGHT	S				
	Standard	Dimensions, P x L x H (mm)	397 X 145 X 220		421 X 190 X 318	
Tower case	Model	Net weight (kg)	13,00	14,60	25,20	28,00
15wer case	(S) Long run	Dimensions, P x L x H (mm)	397 X 145 X 220		421 X 1	90 X 318
	Model	Net weight (kg)	7,00 12,30			2,30
ENVIRON	MENTAL DATA	1				
Operating Humidity			20-90 % RH @ 0-40°C (V	Vithout condensation)		
Noise				< 50dBA @	1 Metro	
INTERFAC	E		<u> </u>			
Smart RS-23				Windows family, Novell,	Linux and FreeBSD	
Optional SN	MP		Power management per SNMP manager e web browser			
					•	

^{* (}S) Identifies lon-lasting models

* Product specifications may be subject to change without notice













=	G1 (GALAXY1 - 6K/1	0K monofase ONLINE UPS DO	UBLE CONVERSION		
MODEL		EG1 6K (S)	EG1 10K (S)		
PHASE		Single phase Input/S	ingle Phase Output		
POWER		6000 VA / 6000 W	10000 VA / 10000 W		
INPUT	-				
· ·	T Ti c C	176 VAC @ 10	0% of the load		
	Low Line transfer	110 VAC @ 50	0% of the load		
V 1. D	r r: 1 1	186 VAC @ 10	0% of the load		
Voltage Range	Low Line comeback	120 VAC @ 50	% of the load		
	High Line transfer	300 VAC			
	High Line comeback	290 V	VAC		
Frequency Range		46~54 Hz ◎ 50Hz /	56~64 Hz ◎ 60Hz		
Phase		Single phase	with ground		
Power Factor P.F		≤ 0.99 @ 100	% of the load		
OUTPUT					
AC Voltage regula	ation (Batt. Mode)	± 1	%		
Frequency Range	(Synchronized)	46~54 Hz ◎ 50 Hz /	56~64 Hz ◎ 60 Hz		
Frequency Range		50 Hz ± 0.1 Hz or	60 Hz ± 0.1 Hz		
Crest current ratio		3:			
Harmonic distortion	on	≤ 2 % THD (linear load) ≤	46 % THD (no-linear load)		
T	AC mode to battery mode	Zei	ro		
Transer time	Inverter to bypass	Zei	O		
Wave form (Batt.	Mode)	Pure Sin	e wave		
EFFICIENCY					
AC Mode		94%			
Battery Mode		919	91%		
BATTERY					
	Battery Type	12 V / 7 AH	12 V / 9 AH		
	Numbers	20	20		
Standard Model	Typical recharging time	7 hours 90% capacity 9 hours 90% capacity			
	Charging current (max.)	1.0 A @	9 4,0 A		
	Charging Voltage	273.0 VDC			
	Battery Type	It depends on the capacity of the external ba	ttories according to the required autonomy		
(S) long	Numbers	it depends on the capacity of the external ba	interies according to the required autonomy		
authonomy model	Typical recharging time	4.0			
	Charging current (max.)	273.0 VDC			
INDICATORS					
LCD Panel		UPS Status, Load Level, Battery Level, Input/C	Output Voltage, Bounce Time, Fault Condition		
ALARMS					
Battery mode		Sounds ever			
Low battery		Sounds ever			
Overload		Double sound	•		
Fault		Continuo	us sound		
DIMENSIONS A	AND WEIGHTS				
Standard Model	Dimensions P x L x H (mm) Net weight (kg)	592 X 25			
	Tiet weight (kg)	81	83		
(S) Long Run	Dimensions, P x L x H (mm)	592 X 25	0 X 576		
model	Net weight (kg)	22	24		
ENVIRONMEN'	TAL DATA				
Operating Humidi		20-90 % RH @ 0- 40°C	(without condensation)		
Noise		< 55dBA @ 1 Metro	< 58dB @ 1 Metro		
INTERFACE					
Smart RS-232		Windows family N1	II Linux and FranDCD		
USB		Windows family, Novel	ii, Liiiux aiid ficedod		
Optional SNMP		Power management per SNM	MP manager e web browser		
			-		

^{* (}S) Identifies lon-lasting models
* Product specifications may be subject to change without notice







ERT1 – GALAXY 1 RT

Double conversion to sinusoidal wave CONVERTIBLE RACK / TOWER **ON-LINE Statics UPS**













1000 - 1500 - 2000 - 3000 VA



6 – 10 KVA

UPS On-Line single phase Sinusoidal pure wave ERT1

- GALAXY1 RT

The ERT1-GALAXY1RT series, convertible in RACK/TOWER is available in the 1KVA to 10KVA power with On-Line double digital control conversion technology ; This series, for its versatility, is suitable for powering any electrical and electronic system even in critical situation, as well as being able to use it as / Hz frequency converter or using power generators

FEATURES

• DOUBLE CONVERSION UPS

A real DOUBLE CONVERSION UPS that will provide a perfect current, for complete high quality protection for your sensitive devices, such as Network, Small Calculation Centers, Servers, Telecommunications,

Healthcare/Hospital Appliances and industrial application in general

• OUTPUT POWER FACTOR φ 1.0

Comparing this UPS ON-LINE line with current marketing competition, we can say that GALAXY1 RT UPSs have the best output power factor 1,0. They offer high performance and efficiency for critical applications.

•LARGE INPUT RANGE (110 V -300 V)

Galaxy RT is able to provide stable and clean current to the equipment also connected in very critical and unstable environments.

•Hot replacement batteries (only for 1-3KVA)

Galaxy RT can provide stable and clean current to the equipment also during the battery changing











•PROGRAMMABLE OUTPUTS

With programmable outputs sockets, the user can easily control part of the load connected to the UPS. During power outages, this feature allows the user to increase battery autonomy and dedicate it to the exclusive protection of some critical appliances, interrupting power supply to non-essential



Programmable sockets (P1)

- connect non-essential devices

•50/60Hz FREQUENCY CONVERTER FUNCTION

Blocks the output frequency at 50Hz or 60Hz regardless of the input frequency and delates the By-Pass

• Emergency Power Off (EPO) FUNCTION

This function serves to the shutdown of the UPS from the staff in case of fire and other situation of emergency.

•SNMP+USB+RS-232 MULTIPLE COMMUNICATIONS

This function allows to use the communication from all USB, RS-232 and SNMP ports simultaneously.

• BATTERY CHARGER STUDIED FOR OPTIMIZE THE PERFORMANCE OF BATTERIES.

The GALAXY 1-3K series is equipped with a 2 steps battery charger for maximum autonomy. It also regulated the charging voltage according to working temperature. All these features have been designed to extend the life of the batteries assembled in the UPS.

. UPS GALAXY RT 6-10K are equipped with a 3 steps extensible battery charger to optimize battery performance. This feature extends the autonomy and optimizes the battery recharging time, and the

battery charge extension is also essential for recharging the batteries with the highest power used to gain long autonomy.

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

Manual By-Pass, ensures the lack of voltage inside of the UPS for maintenance, ensuring power to the connected equipment.

• REDUNDANT PARALLEL OPERATION FOR UPS FROM 6K TO 10K

The GALAXY RT 6K, can work in parallel redundant up to 3 units, which increases power capability, uninterrupted service safety.

• RACK / TOWER design

The GALAXY RT series are UPS convertible models, they can be installed in RACK 19" and TOWER with simple rotation of LCD display, ideal for backups power protection solutions for servers, rescue systems, Network equipment, and other types of loads.

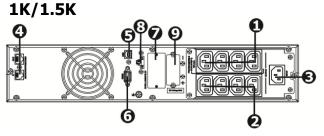
Power Factor Correction untill a 0,99

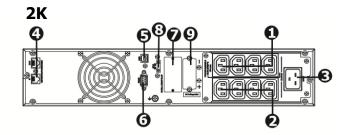
The PFC improbe the quality of the absorbed current and increases the energy yeld, with the consequent economics saving.

COMMUNICATION

Software Series for all operating systems and network environments, UPSILON 2000 Supervision and shutdown platform.

WARRANTY 24



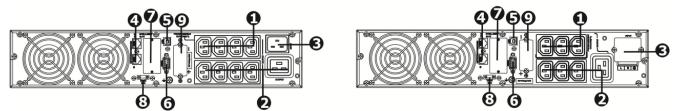


3K

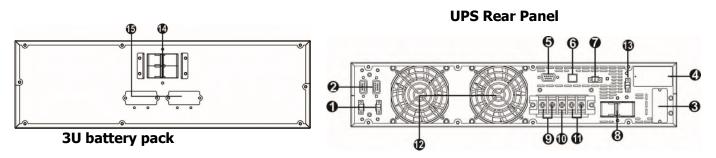








- 1. Programmable outlets: connect to non-critical loads.
- 2. Output receptacles: connect to mission-critical loads.
- 3. AC input
- 4. Network/Fax/Modem surge protection
- 5. USB communication port
- 6. RS-232 communication port
- 7. SNMP intelligent slot
- 8. Emergency power off function connector (EPO)
- 9. External battery connection



- 1) Share current port (only available for parallel model)
- 2) Parallel port (only available for parallel model)
- 3) External battery connector
- 4) Intelligent slot
- 5) RS-232 communication port
- 6) USB communication port
- 7) Emergency power off function connector (EPO connector)
- 8) Input circuit breaker
- 9) Output terminals
- 10) Ground
- 11) Input terminals
- 12) Cooling Fan
- 13) External maintenance bypass switch port
- 14) Battery pack output circuit breaker
- 15) External battery connector













ERT1 1K/1,5	K/2K/3K single pha	se ONLINE UPS Rack/Towe		ERSION Cor	vertible
MODEL		ERT1 1K	ERT1 1.5K	ERT1 2K	ERT1 3K
POWER		1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W	3000 VA / 3000 W
INPUT					
	Nominal tension		200/208/220/230/	/240 Vac	
	m ·		110-300Vac ± 5% @ 5	50% del carico	
Voltage Range	Tension range		160-300Vac ± 5% @ 1	00% del carico	
	Low line comeback		170 VAC ±	5 %	
	High line comeback		290 VAC ±	5 %	
Frequency range			40 Hz ~ 70 Hz	± 5%	
Phases			Single phase with	n neutral	
Power factor P. F.			≥ 0.99 @ Nominaol tension	on (carico 100%)	
OUTPUT					
Voltage output tension			200/208/220/230	/240 Vac	
AC voltage regulation(Batt. M	ode)		± 1%		
Frequency Range (Synchronize			47Hz ~ 53 Hz o 571	Hz ~ 63 Hz	
Frequency Range (Batt. Mode)	1		50 Hz ± 0.1 Hz or 60	$Hz \pm 0.1 Hz$	
Crest current Ratio			3:1		
Harmonic distortion		≦ 2 %	$5 \text{ THD (lineare load)} \leq 4$	% THD (no- linear load	d)
Transfer Time	AC Mode to Battery Mode		Zero		
Transfer Time	inverter to bypass		4 ms (Typic	cal)	
Wave form (Batt. Mode)		Pure sinewave			
EFFICIENCY					
AC mode		89% 91%			
Battery mode			~ 88 - 909	%	
BATTERY					
	Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah
	Number	2	3	4	6
Standard Model	Typical charging time		4 hours to 90% of	capacity	
	Charge current (max.)		2A @ 12A adjustable		2A @ 8A adjustable
	Charging Voltage	27,4Vdc ± 1%	$41,1 \text{Vdc} \pm 1\%$	54,8Vdc ± 1%	$82,1 \text{Vdc} \pm 1\%$
INDICATORS					
LCD Panel		UPS Status, Load Leve	l, Battery Level, Input/Outp	ut Voltage, Bounce Ti	ne, Fault Condition
ALLARM					
Battery mode		Sounds every 5 seconds			
Low battery			Sounds every 2		
Overload		Sound every second			
Fault			Continuous s	ound	
DIMENSIONS AND WEIGH					
Standard Model	DimensionsP x L x H (mm)	410 x 438 x 88	410 x 438 x 88	510 x 438 x 88	630 x 438 x 88
Sumula Model	Net weight(kg)	12	15	20	28
(S) long authonomy Model	DimensionsP x L x H (mm)	410 x 438 x 88	410 x 438 x 88	510 x 438 x 88	510 x 438 x 88
Net weight(kg)		7	8	10	13
ENVIRONMENTAL DATA		1			
Operating humidity		20-90 % RH @ 0- 40°C (without condensation)			
Noise			< 50dBA @ 1	Metro	
INTERFACE		.			
Smart RS-232/USB			Windows family, Linux		
Optional SNMP		Power management per SNMP manager e web browser			

^{* (}S) Identifies lon-lasting models
* Product specifications may be subject to change without notice











MODEL		ERT1 6K	ERT1 10K		
POWER		6 KVA / 6 KW	10 KVA / 10 KW		
INPUT		<u> </u>			
	Nominal tension	200/208/220/	/230/240 Vac		
	Tangian manag	110-300Vac ± 5%	@ 50% del carico		
Voltage Range	Tension range	176-300Vac ± 5% @ 100% del carico			
	Low line comeback	170 VA			
	High line comeback	290 VA			
Frequency range		46~54 Hz @ 50Hz			
Phases		Single phase			
Power factor P. F.		≧ 0.99 @ Nominaol t			
Harmonic distorti	on	< 4% @ 100% del carico	o, < 6% @ 50% del carico		
OUTPUT					
Voltage output ter	nsion	200/208/220/			
AC voltage regula		± 1			
Frequency Range		46Hz ~ 54 Hz (
Frequency Range		$50 \text{ Hz} \pm 0.1 \text{ Hz}$			
Crest current Rati		3:			
Harmonic distorti	***	≤ 12 % THD (carico lineare)			
Transfer Time	AC Mode to Battery Mode	Ze			
	inverter to bypass	Ze			
Wave form (Batt.	Mode)	Pure sinewave			
EFFICIENCY		0.407			
AC mode		94% 92%			
Battery mode		92	.%		
BATTERY	D " "	10 1/ 7 411	1237 / 0 411		
	Battery Type Number	12 V / 7 AH 20	12 V / 9 AH 20		
Standard Model					
Standard Model	Typical charging time Charge current (max.)	7 hours to 90% of capacity	94 hours to 90% of capacity		
	Charging Voltage	1.0 A @ 4.0 A 273.0 VDC			
INDICATORS	Charging voltage	273.0	VDC		
LCD Panel		UPS Status, Load Level, Battery Level, Input/0	Outnut Voltage Pounce Time Foult Condition		
ALARMS		OFS Status, Load Level, Battery Level, hipury	Output Voltage, Bounce Time, Pault Condition		
Battery mode		Sounds ever	v 5 seconds		
Low battery		Sounds ever			
Overload			ery second		
Fault		Continuo	<u>, </u>		
DIMENSIONS A	AND WEIGHTS	Continue	an nound		
Standard Model	DimensionsP x L x H (mm)	UPS - 610 X 438 X 88 (2U) Battery pack - 600 X 438 X 133 (3U)	UPS - 610 X 438 X 88 (2U) Battery pack - 600 X 438 X 133 (3U)		
	Net weight(kg)	17 + 57	20 + 63		
(S) long	DimensionsP x L x H (mm)	610 X 438 X 88 (2U)	610 X 438 X 88 (2U)		
authonomy	· · ·				
Model	Net weight(kg)	17	20		
ENVIRONMEN	TAL DATA				
Operating humidity		20-90 % RH @ 0- 40°C	C (without condensation		
Noise		< 58dBA @ 1 Metro	< 60dB @ 1 Metro		
INTERFACE					
Smart RS-232/USB		Windows family, Linux , Unix, MEC			
Optional SNMP		Power management ner SN	MP manager e web browser		
* (\$) Identifies for festing models		Power management per SNMP manager e web browser			

^{* (}S) Identifies lon-lasting models
* Product specifications may be subject to change without notice







EGL 3T

double conversion to sinuisodal wave THREE PHASE/SINGLE PHASE **ON-LINE Statics UPS**









UPS On-Line three phase / single phase Sinusoidal pure wave

EGL 3T GALAXY 3T



10 - 20 KVA

The EGL 3T – GALAXY 3T series is available in 10 KVA and 20 KVA poker with dual-conversion digital control on-line technology; This series, for its versatility, is suitable for powering any electrical and electronic system even in critical situations, as wellas being able to be use it as a 50/60Hz frequency converter or using power generators.

FEATURES

• DOUBLE CONVERSION UPS

A real DOUBLE CONVERSION UPS that will provide a perfect current, for complete high quality protection for your sensitive devices, such as Network, Small Calculation Centers, Servers, Telecommunications,

Healthcare/Hospital Appliances and industrial application in general

• OUTPUT POWER FACTOR φ 0.8

Comparing this UPS ON-LINE line with current marketing competition, we can say that GALAXY UPSs have the best output power factor 0,8 They offer high performance and efficienty for critical applications.

•LARGE INPUT RANGE (110 V -300 V)

Galaxy is able to provide stable and clean current to the equipment also connected in very critical and unstable environments







•PROGRAMMABLE OUTPUTS

With programmable outputs sockets, the user can easily control part of the load connected to the UPS. During power outages, this feature allows the user to increase battery autonomy and dedicate it to the exclusive protection of some critical appliances,

interrupting power supply to non-essential equipment.

Programmable sockets (P1) - connect non-essential devices



• 50/60 Hz FREQUENCY CONVERTER FUNCTION

Blocks the output frequency at 50Hz or 60Hz regardless of the input frequency and delates the By-Pass

• Emergency Power Off (EPO) FUNCTION

This function serves to the shutdown of the UPS from the staff in case of fire and other situation of emergency.

• SNMP+USB+RS-232 MULTIPLE COMMUNICATIONS

This function allows to use the communication from all USB, RS-232 and SNMP ports simultaneously.

• BATTERY CHARGER STUDIED FOR OPTIMIZE THE PERFORMANCE OF BATTERIES.

The GALAXY 1-3K series is equipped with a 2 steps battery charger for maximum autonomy. It also regulated the charging voltage according to working temperature. All these features have been designed to extend the life of the batteries assembled in the UPS.

. UPS GALAXY 6-20K are equipped wit a ica batterie a 3 steps extensible battery charger to optimize battery performance. This feature extends the autonomy and optimizes the battery recharging time, and the battery charge extension is also essential for recharging the batteries with the highest power used to gain long autonomy.

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

Manual By-Pass, ensures the lack of voltage inside of the UPS for maintenance, ensuring power to the connected equipment.

• REDUNDANT PARALLEL OPERATION

The GALAXY 3T, can work in parallel redundant up to 3 units, which increases power capability, uninterrupted service safety.

• Power Factor Correction ON ALL THREE/SINGLE PHASE 10KVA TO 20KVA

The PFC improbe the quality of the absorbed current and increases the energy yeld, with the consequent economics saving.

COMMUNICATION

Software for all operating systems and network environments, UPSILON 2000 Supervision and Shutdown platform.

WARRANTY 24 MONTHES













EGL	3T 10K/20K three ph	ase/single phase ONLINE UPS	DOUBLE CONVERSION		
MODEL	·	EGL 3T-10K (S) EGL 3T-20K (S)			
PHASE		THREE PHASE INPUT/SINGLE PHASE OUTPUT			
POWERS		10000 VA / 9000 W	20000 VA / 18000 W		
INPUT					
Low Line transfer		176 VAC @ 10	00% of the load		
	Low Line transfer	110 VAC @ 50			
Voltage Range	Low Line comeback	186 VAC @ 10			
		120 VAC @ 50% of the load 300 VAC			
	High Line transfer	290			
F D	High Line comeback				
Frequency Range		46~54 Hz ◎ 50Hz /			
Phase Power Factor P.F.		Three phase □ 0.99 @ 100			
OUTPUT		□ 0.99 @ 100	7% of the load		
	ation (Batt. Mode)	± 1	0/		
Frequency Range		± 1 46~54 Hz ◎ 50 Hz /			
1 , 0					
Frequency Range Crest current ratio		50 Hz ± 0.1 Hz o 3:			
Crest current ratio Harmonic distortion			6 % THD (non linear load)		
	AC mode to Battery Mode	Ze			
transfer Time	inverter to bypass	Ze			
Wave form (Batt.	71	Pure sir			
EFFICIENCY	inode)	T die sit	iewave		
AC mode		90	%		
Battery mode		88			
BATTERY			· ·		
	Battery Type	12 V / 9 AH	12 V / 9 AH		
	Numbers	20	40		
Standard Model	Typical recharging time	7 ore 90% capacità	9 ore 90% capacità		
	Charge current (max.)	1.0 A	2.0 A		
	Charging Voltage	273.0	VDC		
	Battery Type	It depends on the capacity of the external batteries according to the required autonomy			
(S) long	Numbers	it depends on the capacity of the external ba	atteries according to the required autonomy		
authonomy model		4.0 A	8.0 A		
	Charge current (max.)	273.0	VDC		
INDICATORS	_				
LCD Panel		UPS Status, Load Level, Battery Level, Input/C	Output Voltage, Bounce Time, Fault Condition		
ALARMS		~ .			
Battery mode		Sounds ever			
Low battery		Sounds ev			
Overload		Double sound	<u> </u>		
Fault	ND WEIGHTS	Continuo	us sound		
DIMENSIONS A	Dimensions P x L x H (mm)	592 X 250 X 576	862 X 250 X 826		
Standard Model					
(S) Long run	Net weight (kg) Dimensions, P x L x H (mm)	83 592 X 25	139 50 X 576		
(S) Long run. model	Net weight (kg)	24	37		
ENVIRONMEN'	TAL DATA	<u>l</u>			
Operating Humidi		20-90 % RH @ 0- 40°C	(without condensation)		
Noise Noise		< 45dBA @ 1 Metro	< 60dB @ 1 Metro		
INTERFACE	I				
Smart RS-232		XXV 1 0 11 2X	ILL' LE DOD		
USB	'	Windows family, Novell, Linux and FreeBSD			
Optional SNMP		Power management per SNI	MP manager e web browser		
. (G) T1 .1C .1					

^{* (}S) Identifies lon-lasting models
* Product specifications may be subject to change without notice