

CATALOGO



GRUPPI DI CONTINUITA' TRIFASE/TRIFASE

SERIE EG1 33 – GALAXY1 33

SERIE EF1 33 – FORTESS 33



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EG1 - 33

EF1 - 33

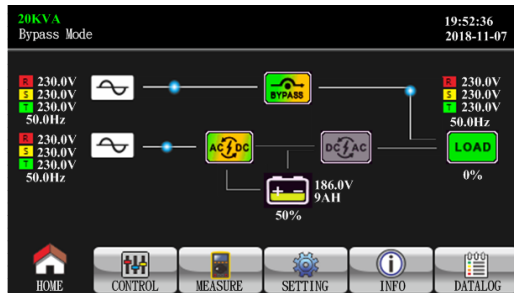
ON-LINE Statics UPS
Double conversion to sinuisodal wave
THREE PHASE/THREE PHASE

UPS

**On-Line triphase / triphase
Pure sinusoidal wave**

EG1 - 33

GALAXY 1 - 33



10 - 20 – 30 KVA

40 - 60 – 80 KVA

The EG1 - 33 – GALAXY 1 - 33 series is available from 10 KVA to 80 KVA power 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 well as being able to be used 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 efficiency for critical applications.

• DOUBLE INPUT

Galaxy1 33 has double input separated for line and By-Pass, for a higher flexibility in system configuration.

• ECO FUNCTION FOR THE ENERGY SAVING

Galaxy1 33 has ECO mode that improve the efficiency up to 98% to reduce the power consumption and the cost. In this mode the charges are powered directly from net. If network isn't available the UPS provides constantly the power to the device connected without interruption.

• 50/60 Hz FREQUENCY CONVERTER FUNCTION

Blocks the output frequency at 50Hz or 60Hz regardless of the input frequency and delays 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.

• CHARGER POWER ADJUSTABLE

This function allows to use the correct power of the charger in base of the equip batteries. Adjustable up to 12A for models from 10K to 40K and up to 24A for models from 60K to 80K

• BATTERY CHARGER STUDIED FOR OPTIMIZE THE PERFORMANCE OF BATTERIES.

. UPS GALAXY 33 are equipped with a 3 steps ice battery 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.

• **BATTERY VOLTAGE ADJUSTABLE** UPS GALAXY1 33 have the possibility to adjust the number of batterie sto connect from 32 to 40, to have the best flexibility o fuse and compatibilit . (no on 10 KVA)

•MANUAL BY-PASS FOR THE MAINTENANCE ON UPS

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

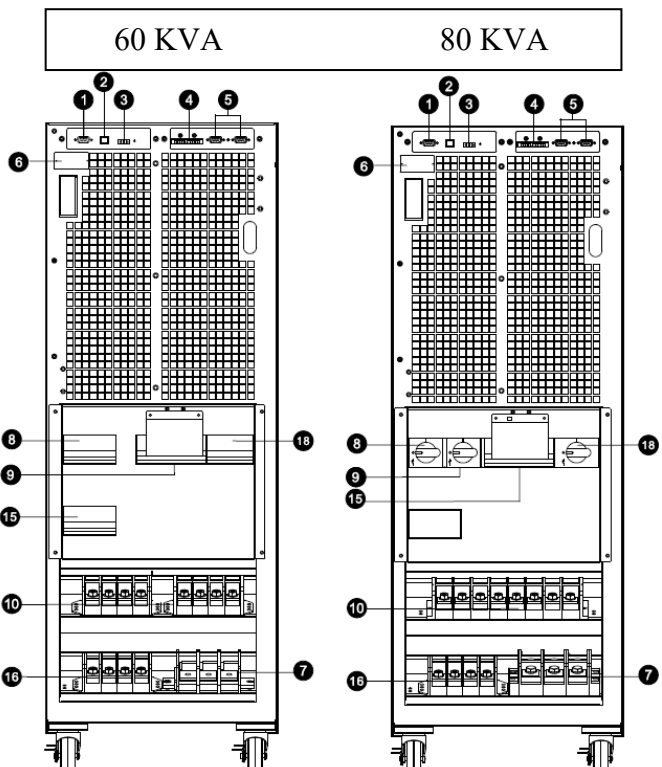
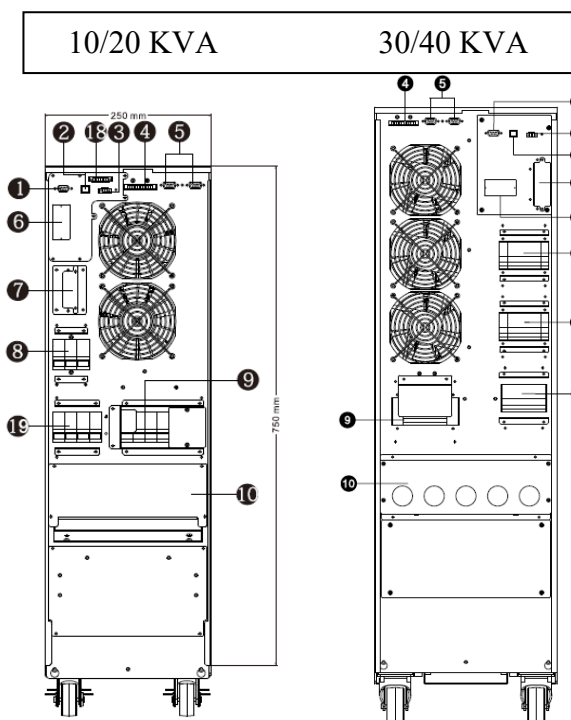
• Power Factor Correction ON ALL PHASES

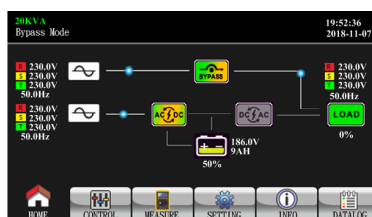
The PFC improve the quality of the absorbed current and increases the energy yeld, with the consequent economics saving.

COMMUNICATION

Software for all operating system and network enviornments, Supervision and shutdown platform

24 MONTHS WARRANTY





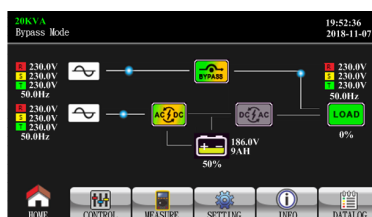
EG1 33 10K/40K three phase / three phase ONLINE UPS DOUBLE CONVERSION

MODEL		EG1 33-10K (S)	EG1 33-20K (S)	EG1 33-30K (S)	EG1 33-40K (S)
PHASE		Triphase input / triphase – monophase output		Triphase input / triphase output	
POWER		10 KVA / 10 KW	20 KVA / 20 KW	30 KVA / 30 KW	40 KVA / 40 KW
INPUT					
Nominal voltage		3 x 400Vac (Triphase with neutral on earth)			
Volt Range		305 - 478 VAC (F/F) @ 100% of charge 190 - 520 VAC (F/F) @ 50% of charge			
Range Frequency		46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz			
Phases		Triphase with neutral on earth			
Power factor P.F.		≥ 0.99 @ 100% of charge			
OUTPUT					
Output voltage		3 x 360* - 380 - 400 - 415V Triphase with neutral 1 x 208 – 220 – 230 – 240V Monophase		3 x 360* - 380 - 400 - 415V Triphase with neutral	
Tolerance Volt (Batt. Mode)		± 1%			
Frequency(Range di sincronizzazione)		46~54 Hz @ 50 Hz / 56~64 Hz @ 60 Hz			
Frequency(Range Batt. Mode)		50 Hz ± 0.1 Hz o 60 Hz ± 0.1 Hz			
Crest current Ratio		3:1			
Harmonic distortion		≤ 2 % THD (linear charge) ≤ 5 % THD (not linear charge)			
Intervention time	Line to battery	Zero			
	Inverter to bypass	Zero			
Wave form (Batt. Mode)		SINUSOIDAL PURE			
Overcharge	Line mode	100%~110%: 60min; 110%~125%: 10min; 125%~150%:1min;>150% immediately			
	Battery mode	100%~110%: 60min; 110%~125%: 10min; 125%~150%:1min;>150% immediately			
EFFICIENCY					
With present line		95.5%			
With power from eco mode		98%			
With power from batteries		94.5%			
BATTERY					
Model Standard	Battery type	12 V / 9 AH		12 V / 7 AH	12 V / 9 AH
	Battery number	10+10	16+16	2 // 16+16	
	Typical recharging time	9 ore 90% capacity			
	Charge current (max.)	1.0 A ~ 12.0 A adjustable			
	Charging Voltage	+/- 136.5 VDC +/- 10%	+/- 218 VDC +/- 10%		
Model (S) long run	Battery type	It depends on the capacity of the external batteries according to the required autonomy			
	numbers	20	32 ~ 40 adjustable		
	Charge current (max.)	1.0 A ~ 12.0 A adjustable			
	Charging Voltage	+/- 136.5 VDC +/- 10%	+/- 13.65 VDC +/- 10% x N (N = 16 ~ 20 batt)		
INDICATORS					
Panel LCD		4.3" coloredTouch, condition UPS, charge level, battery level, Voltage input/output, discharge time batt. Fault condition			
DIMENSIONS AND WEIGHTS					
Standard Model	Dimension, P x L x H (mm)	627 X 250 X 827		815 X 300 X 1000	
	Nett weight (kg)	126	141	230	250
(S) long run Model	Dimension, P x L x H (mm)	627 X 250 X 827		815 X 300 X 1000	
	Nett weight (kg)	60	70	90	100
ENVIRONMENTAL DATA					
Operating humidity		0-90 % RH @ 0- 40°C (without condense)			
Noise		< 60dBA @ 1 Metr	< 65 ~ 70 dB @ 1 Metr		
INTERFACE					
USB		Windows family, Linux, Unix and MAC			
Optional SNMP		Power management per SNMP manager e web browser			

* When output voltage is aduste on 3 x 360 VAC, output power will be reduced to 90%

(S) Identify long run models

Product specifications may be subject to change without notice



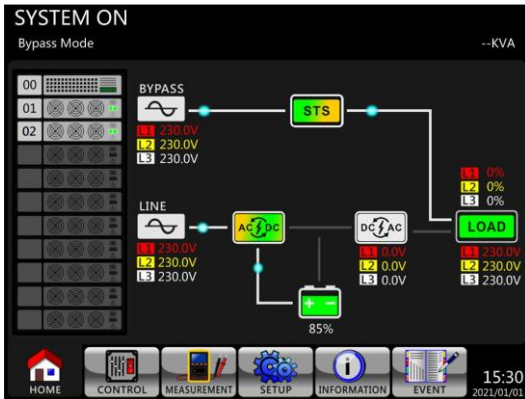
EG1 33 10K/20K three phase / three phase ONLINE UPS DOUBLE CONVERSION SIONE

MODEL		EG1S 33-60K	EG1S 33-80K
PHASE		Triphase input / triphase output	
POWER		60 KVA / 60 KW	80 KVA / 80 KW
INPUT			
Nominal Voltage		3 x 400Vac (Triphase with neutral on earth)	
Voltage Range		305 - 478 VAC (F/F) @ 100% of charge 190 - 520 VAC (F/F) @ 50% of charge	
Frequency Range		46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz	
Phase		(Triphase with neutral on earth)	
Power factor P.F.		≥ 0.99 @ 100% of charge	
OUTPUT			
Output voltage		3 x 360* - 380 - 400 - 415V Triphase with neutral	
Tollerance Volt (Batt. Mode)		± 1%	
Frequency (Range of syncro)		46~54 Hz @ 50 Hz / 56~64 Hz @ 60 Hz	
Frequency(Range Batt. Mode)		50 Hz ± 0.1 Hz o 60 Hz ± 0.1 Hz	
Crest current Ratio		3:1	
Harmonic distortion		≤ 2 % THD (linear charge) ≤ 5 % THD (not linear charge)	
Intervention time	Line to battery	Zero	
	Inverter to bypass	Zero	
Wave form (Batt. Mode)			
Overcharge	Line mode	100%~110%: 60min; 110%~125%: 10min; 125%~150%:1min;>150% immediately	
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EFFICIENCY			
With present line		95.5%	
With power from eco mode		98%	
With power from batteries		94.5%	
BATTERY			
(S) long run Model	Battery type	It depends on the capacity of the external batteries according to the required autonomy	
	numbers	32 ~ 40 adjustable	
	Charge current (max.)	2 A ~ 24 A adjustable	
	Charging Voltage	+/- 13.65 VDC +/- 10% x N (N = 16 ~ 20 batt)	
INDICATORS			
Panel LCD		4.3" coloredTouch, condition UPS, charge level, battery level, Voltage input/output, discharge time batt. Fault condition	
DIMENSIONS AND WEIGHTS			
Dimensioni, P x L x H (mm)	Dimensions, P x L x H (mm)	790 X 360 X 1010	
	Nett weight (kg)	112	117
ENVIRONMENTAL DATA			
Operating humidity		0-90 % RH @ 0- 40°C (without condensenza)	
Noise		< 70dBA @ 1 Metr	< 75 dB @ 1 Metr
INTERFACE			
USB		Windows family, Linux, Unix and MAC	
Optional SNMP		Power management per SNMP manager e web browser	

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(S) Identify long run models

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60 – 80 -100 – 120 KVA

UPS

**On-Line triphase / triphase
Pure sinusoidal wave**

EF1 - 33

FORTES 1 - 33

The EF1 - 33 – FORTES 1 - 33 serie is available from 60 KVA to 120 KVA power 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 well as 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 efficiency for critical applications.

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Galaxy1 33 has double input separated for line and By-Pass, for a higher flexibility in system configuration.

• **ECO FUNCTION FOR THE ENERGY SAVING**

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

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This function allows to use the correct power of the charger in base of the equip batteries. Adjustable up to 12A for models from 10K to 40K and up to 24A for models from 60K to 80K

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• Power Factor Correction ON ALL PHASES

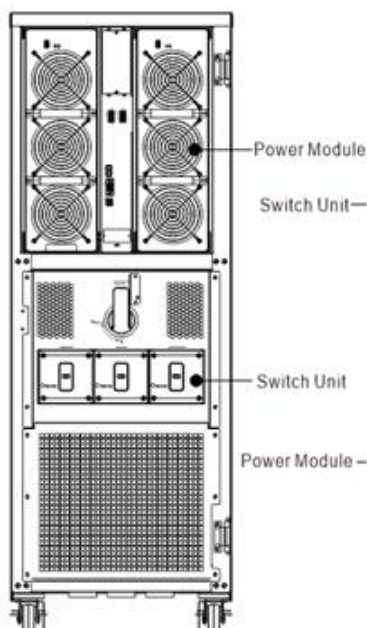
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COMMUNICATION

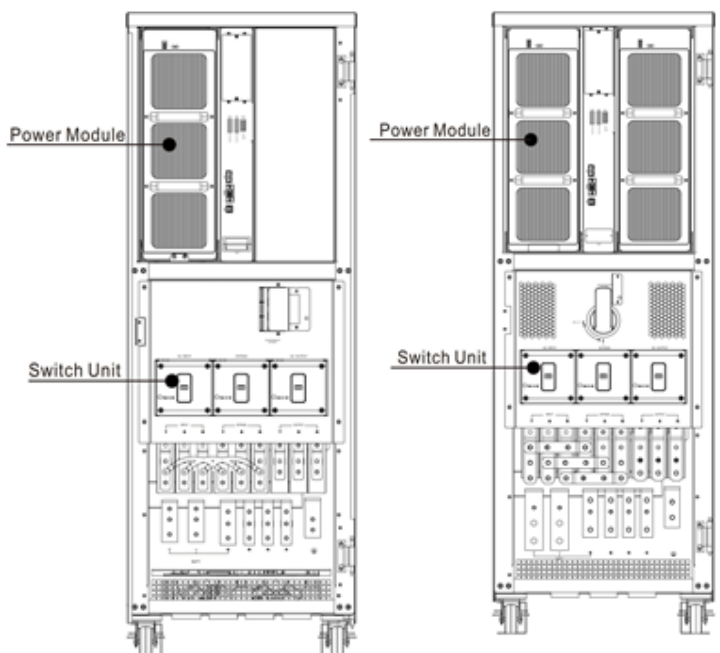
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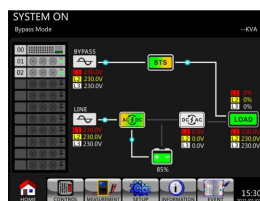
24 MONTHS WARRANTY

80 KVA 120 KVA



60/80 KVA 100/120 KVA





EF1 33 60K / 120K three phase / three phase ONLINE UPS DOUBLE CONVERSION					
MODEL	EF1 33-60K (S)		EF1 33-80K (S)	EF1 33-100K (S)	EF1 33-120K (S)
PHASE	Triphase input / triphase output				
POWER	60 KVA / 60 KW		80 KVA / 80 KW	100 KVA / 100 KW	120 KVA / 120 KW
PARALLEL CAPABIUTY	4 UNIT				
INPUT					
Nominal voltage	3 x 400Vac (Triphase with neutral on earth)				
Volt Range	305 - 478 VAC (F/F) @ 100% of charg 190 - 520 VAC (F/F) @ 50% of charge				
Range Frequency	46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz				
Phases	Triphase with neutral on earth				
Power factor P.F.	< 0.99 @ 100% of charge				
Harmonic Distordon (THDi)	< 4% at full linear load				
OUTPUT					
Output voltage	380 - 400 - 415V Triphase with neutral				
Voltage Regulation (Steady state)	≤ 1% Typical (balanced load) ≤ 2% Typical (unbalanced load)				
Frequency(Range di sincronizzazione)	46~54 Hz @ 50 Hz / 56~64 Hz @ 60 Hz				
Frequency(Range Batt. Mode)	50 Hz ± 0.1 Hz o 60 Hz ± 0.1 Hz				
Crest current Ratio	3:1				
Harmonic distortion	≤ 2 % THD (linear charge) ≤ 4 % THD (not linear charge)				
Intervention time	Line to battery	Zero			
	Inverter to bypass	Zero			
Wave form (Batt. Mode)	SINUSOIDAL PURE				
Overcharge	Line mode	100%~110%: 60min; 110%~125%: 10min; 125%~150%:1min;>150% innediately			
	Battery mode	100%~110%: 60min; 110%~125%: 10min; 125%~150%:1min;>150% innediately			
EFFICIENCY					
With present line	95,5%				
With power from eco mode	98,5%				
With power from batteries	94,5%				
BYPASS					
Nominai Voltage	380 - 400 - 415V Triphase with neutral				
Voltage Range	-30% - +20%				
Frequency Range	46Hz - 54Hz or 56Hz - 64Hz				
Ovedoad Capability	≤ 110% for 1 hour, 111% - 125% for 10 mins, 126%-150% for 1 min and >150% for 200ms				
BATTERY					
Model (S) long run	Battery type	It depends on the capacity of the external batteries according to the required autonomy			
	numbers	+/-192Vdc ~ +/-240vDC adjustable (32 ~ 40 adjustable)			
	Charge current (max.)	1.0 A ~ 24.0 A adjustable		1.0 A ~ 36.0 A adjustable	
	Charging Voltage	+/- 13.65 VDC +/- 10% x N (N = 16 ~ 20 batt)			
INDICATORS					
Panel LCD	7" coloredTouch, condition UPS, charge level, battery level, Voltage input/output, discharge time batt. Fault condition				
DIMENSIONS AND WEIGHTS					
(S) long run	Dimension, P x L x H (mm)	1000 X 430 X 1200			
Model	Nett weight (kg)	168	169	170	171
ENVIRONMENTAL DATA					
Operating humidity	0-90 % RH @ 0- 40°C (without condense)				
Noise	< 65 ~ 75 dB @ 1 Metr				
Altitude **	< 1000 Metr for normal power				
INTERFACE					
USB	Windows family, Linux, Unix and MAC				
Optional SNMP	Power management per SNMP manager e web browser				
STANDARD					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2 Category C3				

Product specifications may be subject to change without notice

**If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

Product specifications are subject to change without further notice.