



L'Énergie Sans Limite !
Safe Energy for Life !



Emergency Power System / Inverter for long backup needs

G1

The G1 is an inverter with a powerful integrated charger : a perfect solution to provide long time electric independence to loads such as lighting security, elevator, air conditioning or ATM.

From 5kW to 45kW

A solution dedicated to applications up to 24h requiring long backup time

The G1 is an inverter / charger, combining functions of DC / AC converter (inverter) and 60A battery charger. With its rack format, it offers an uninterruptible power support in numerous applications : commercial equipment, banking or industry.

Easy to install in rack server systems

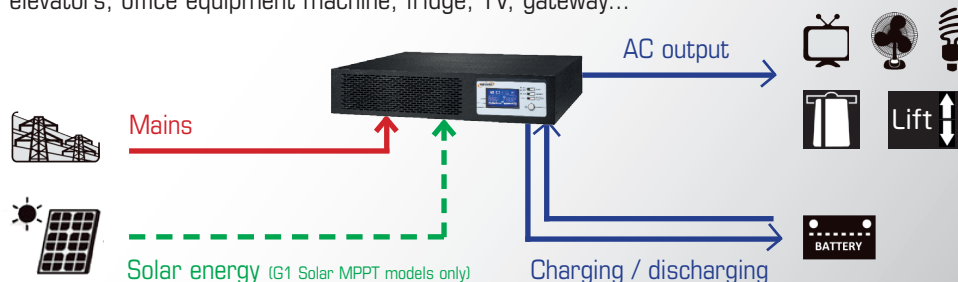
- Compatible with all 19" rack server
- 19" rack format
- 5kW per unit
- Up to 9 units in parallel for **up to 45 kW single phase or tree phases**
- Can be operated on environment up to 40° C (or up to 55° C with 4kW per unit)

High-end technology

- Output sine wave
- Power factor = 1 (5000 VA = 5000 W)
- Super Charger System up to 60A per module (540A max)
- Configurable parameter setting via LCD display
- Compatible with single phase or three phases applications
- Compatible with generator power supply
- Available with MPPT technology (G1 Solar MPPT) : high solar efficiency thanks to the MPPT technology

Basic system architecture for many equipments

The G1 can power all kind off **applications at home or office** : air conditioner, ATM, lighting security, elevators, office equipment machine, fridge, TV, gateway...



Pure Sinewave



Parallelizable



LCD screen



19" rack-ready version



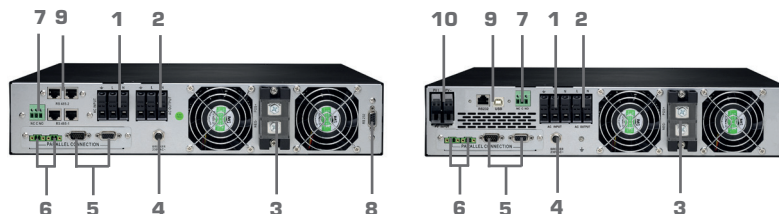
Up to 24h min. backup time *
*Depending on the model and the connected load

To get the exact backup time you need, external batteries can easily be settled at the back of G1 units inside your rack cabinet.

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CONNECTION

1. AC input terminal
2. AC output terminal
3. Battery input
4. Circuit breaker
5. Parallel communication ports
6. Share current port
7. Dry contact
8. RS-232 communication port
9. Communication ports
10. PV input terminal



G1

From 5kW to 45kW

TECHNICAL CHARACTERISTICS

GENERAL SPECIFICATIONS

	G1 5kW	G1 Solar MPPT 5kW
Wave form (batt mode)	Sine wave	
Power	5000 VA / 5000 W	
Power factor	1	

PHYSICAL

Dimensions - WxLxH (mm)	400 x 438 x 88 (2U)	
Net weight (kg)	9.1	

INPUT

Voltage	220/230/240 VAC	
Selectable voltage range	170-255 VAC	
Frequency range	50 Hz/60 Hz (auto detection) 47.5 ~ 52.5 Hz for 50Hz system / 57.5 ~ 62.5 Hz for 60Hz system	

OUTPUT BATTERY MODE

Voltage	220/230/240 VAC ± 1.5%	
Surge Power for 5 seconds	10000VA	
Efficiency	>93%	
Transfer time	10 ms	

BATTERY

Battery voltage	48 VDC	
CC/CV voltage	56.4 VDC	
Floating Charge Voltage	53.6 VDC	
Overcharge Protection	60 VDC	

AC CHARGER

Maximum charge current in AC mode	2.5 to 60 A	
Charging mode	3 steps for CC, CF and floating	

SOLAR CHARGER

Maximum PV Array Power	-	4000W
MPPT range @ Operating voltage	-	60 VDC - 115 VDC
Maximum PV Array Open Circuit Voltage	-	145 VDC
Maximum Solar Charge Current	-	80A

PARALLEL

Maximum parallel unit	up to 9 units	
Parallel type	single phase or three phases	
Transfer time in parallel mode	<40ms	

ENVIRONMENT

Ideal environment	5% to 95% relative humidity (without condensing)	
Working mode temperature	from 0°C to 55°C (derate to 4kW if > at 40°)	
Storage temperature	-15°C to 60°C	
Accoustic noise	<60 dB	

NORMS

Standard	CE RoHS	
EMC (Electromagnetic)	EN 61000-6-4: 2007+A1: 2011; EN 61000-3-12: 2011; EN 61000-3-11: 2000; EN 61000-6-2: 2005+AC: 2005	
Low voltage (Safety)	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013	

SALES INFO

Warranty	2 years	
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Product specifications are subject to change without further notice

Packaging content

- 1 unit
- User's manual
- Parallel cable
- Ears included
- Software

Does not include :

- 19" rack server
- Battery Cabinet
- Battery
- Breakers
- Connection required in 19" server bay

Options

- Rack kit (Ref : 61429)
- SNMP G1 Agent (Ref. 61199)

Warranty

Two-year guarantee against manufacturing defects under normal use and provided the precautions for use are complied with. Guarantee to be registered on the website within 10 days of purchase.



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