



L'Énergie Sans Limite !  
Safe Energy for Life !



## Emergency Power System / Inverter for long backup needs



The **G1** is an inverter with a powerful integrated charger : a perfect solution to provide long time electric independence to loads for which service continuity is a major issue at low cost 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 for various environments where service continuity is highly expected even if equipments are not sensible : **commercial equipment, banking or industry.**

### ● Easy to install in rack server systems

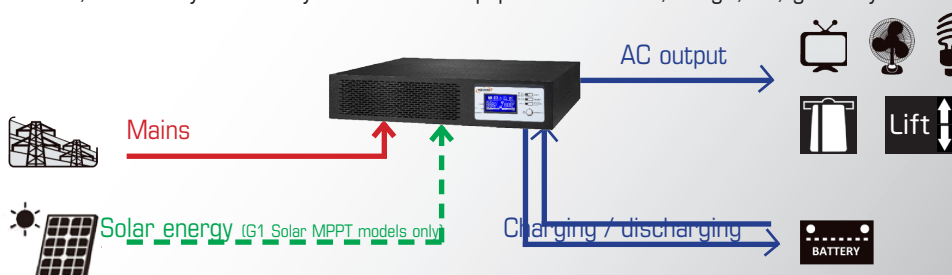
- Compatible with all 19" rack server
- 19" rack format
- 5kW per unit
- Up to 9 units in parallel for **up to 45 kW single phase or three phases**
- Can be operated on environment up to 40° C (or up to 55° C with 4kW per unit)

### ● 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) for high solar efficiency

### ● Adaptable system architecture for many equipments

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



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



Pure Sinewave



Parallelizabile



LCD screen



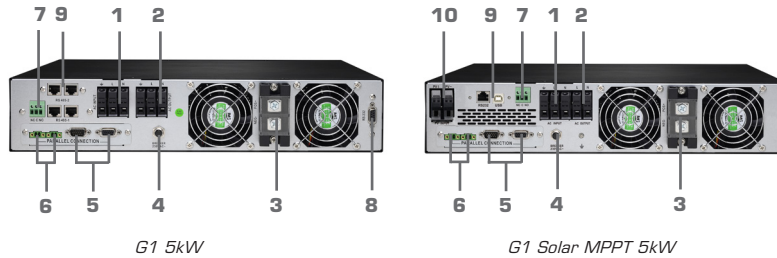
19" rack-ready version



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

# 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
<b>Wave form (batt mode)</b>	Sine wave	
<b>Power</b>	5000 VA / 5000 W	
<b>Power factor</b>	1	
<b>PHYSICAL</b>		
<b>Dimensions - WxLxL (mm)</b>	400 x 438 x 88 (2U)	
<b>Net weight (kg)</b>	9.1	
<b>INPUT</b>		
<b>Voltage</b>	220/230/240 VAC	
<b>Selectable voltage range</b>	170-255 VAC	
<b>Frequency range</b>	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

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

### BATTERY

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

### AC CHARGER

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

### SOLAR CHARGER

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

### PARALLEL

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

### ENVIRONMENT

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

### NORMS

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

### SALES INFO

<b>Warranty</b>	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.



### Infosec Communication

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