

User-friendly

Easy installation and setup for immediate use.

Intuitive LCD display

Providing easy-to-read UPS status and power information.

Convertible design

Online UPS's can be used in both tower and rack configurations.

Suitable for a variety of Small-Office and Home-Office applications, Borri 1-phase UPS's Giotto, Galileo and Leonardo have been designed to prevent power interferences and to keep your small and medium equipment running.



GIOTTO

from 450 VA — to 2000 VA

Line interactive 1-Phase UPS ideal for home and small office, computers and peripherals.







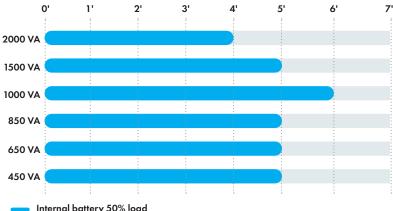


Features and benefits

- User-friendly UPS ensuring compact protection for a wide range of needs:
 - Best power protection for PC from 450 to 850 VA with one output receptacle (IEC 320-C13) and one Schuko.
 - Advanced power protection from 1000 to 2000 VA with four output receptacles (IEC 320-C13) and one Schuko for high performance PC and peripherals.
- Instantaneous battery back-up power and electrical interference protection.
- Plug and Play installation easy to set up also for first-time users.
- Compact and noise-free running to be placed anywhere at home or
- Energy efficient ensuring lowest impact on energy costs.
- Intuitive LCD display provides easy-to-read UPS status and power information.

- Audible alarm alerts upon utility power and UPS status change.
- Easy User-replaceable battery.
- AVR technology stabilizing output voltage to protect your electronics over a wide range of mains quality
- Advanced battery management extending battery life.
- Internet Modem / LAN protection via RJ-11/45 plug.
- USB communication port providing UPS managements.
- Cold start for powering loads when mains are not available.
- Borri Power Guardian user-friendly UPS management software free downloadable at www.borri.it/ download (for more info see p.20/21).

Back up time with internal batteries



Internal battery 50% load

GIOTTO technical data

Rating (VA)		450	650	850	1000	1500	2000		
Nominal Power (W)		270	380	500	600	900	1200		
UPS dimensions WxDxH (mm)		100x292x140			148x315x198				
UPS weight (kg)		4	5	5.5	9	10.5	11.8		
Input									
Connection type		IEC 320-C14							
Nominal voltage		230 Vac 1-phase							
Voltage range		160 to 290 Vac							
Frequency and r	ange			50/60 Hz,	45 to 65 Hz				
Output									
Connection ty	ре	1 IEC 320-C13 and 1 Schuko			4 IEC 320-C13 and 1 Schuko				
Nominal voltage		230 Vac 1-phase							
Frequency		50/60 Hz							
Wave form		Simulated sine wave							
Battery									
Autonomy time (min.) ◊	50% load	5	5	5	6	5	4		
Autonomy lime (lilin.) V	100% load	3	3	3	3	3	2		
Connectivity and functi	on extensions								
Front panel		LCD, ON/OFF button							
Communication		Included: USB Compatible platforms: Windows, Linux, Mac							
Environmental									
Operating temperature range		0°C to +40°C							
Altitude (AMSL)		< 1000 m without power reduction, > 1000 m with reduction of 0.5% per 100 m							
Audible noise at 1 m (dBA)		< 40							
Standards and certifica	tions								
Quality assurance, environment, health and safety		ISO 9001:2015, ISO 14001:2015, BS OHSAS 18001:2007							
Safety		IEC/EN 62040-1							
EMC		IEC/EN 62040-2							
Marking		CE							

 $[\]Diamond$ Measurement conditions: optimised parameters, fully charged battery, 0.6 PF





GALILEO

from 1000 VA — to 3000 VA

On-line 1-Phase UPS with Tower and Rack/Tower convertible design ideal for small and medium businesses, networks and servers.



Features and benefits

or two Schuko.

• On-line double conversion UPS from

1000 to 3000 VA, Tower and 2U

Rack/Tower from three to six output

receptacles (IEC 320-C13) and one

• Rack/Tower convertible design

panel can be rotated.

battery.

• Easy installation and set up,

to protect your investment when

migrating from tower to rack-mount

environment. Both UPS and display

user-replaceable and upgradable

Intuitive LCD display providing easyto-read UPS status and power information.

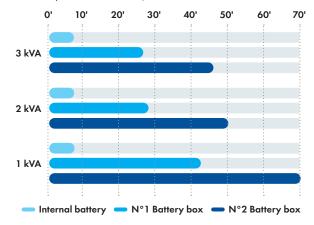
- Audible alarm alerts upon utility power and UPS status change.
- Smart cooling system ensuring further energy savings.
- Programmable switched outlet group for setting load priorities.
- Active harmonic power quality control ensuring up to 0.99 input PF and THDi<3% for maximum compatibility with sources.
- Automatic self test and advanced battery management maximizing battery performance and extending battery life.
- Remote power off for immediate
 UPS shutdown in case of emergency.
- USB communication port providing UPS management.
- One slot auto-sensing communication cards.
- Cold start for powering loads when mains are not available.

 Borri Power Guardian user-friendly UPS management software with alerts upon main power failures and system shutdown notification via SMS and email, free downloadable at www.borri.it/download (for more info see p.20/21).

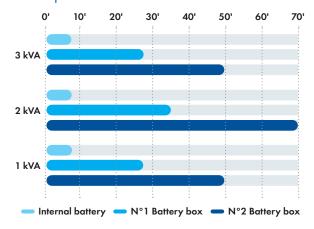
Main options

- SNMP card to send UPS status to BMS's by Ethernet connection and SNMP or ModBus over IP protocol to monitor UPS status by any internet browser from workstations and to receive SMS or e-mail alerts from the UPS on any portable device.
- Contact relay card to send UPS status to PLC's, SCADA's or AS400's by voltage free SPDT contacts.
- Battery extension box allowing additional autonomy time to be quickly added.
- Additional battery charger for external battery box.
- Rail kit Rack/Tower.
- Rack PDU with external sockets and manual bypass switch.

Back up time for Rack/Tower UPS



Back up time for Tower UPS





GALILEO technical data

UPS Type		T *	T *	T *	RT (2U) **	RT (2U) **	RT (2U) **		
Rating (VA)		1000	2000	3000	1000	2000	3000		
Nominal Power (W)		900	1800	2700	900	1800	2700		
UPS dimensions WxDxH (mm)		144×367×236	151×444×322	189x444x322	440x390x88	440x475x88	440x600x88		
UPS weight (kg)		11.2	18.8	24.9	12.0	17.0	26.5		
Input					1				
Connection type		IEC 320-C14 IEC 320-C20 IEC		IEC 32	20-C14 IEC 320-C				
Nominal voltage		230 Vac 1-phase							
Voltage range		195 to 260 Vac							
Frequency and range		50/60 Hz, 45 to 65 Hz							
Power factor		0.98							
Current distortion (THDi)	<3%							
Output									
Connection type		3 IEC 320-C13 1 Schuko	3 IEC 320-C13 2 Schuko	6 IEC 320-C13 2 Schuko	3 IEC 320-C13	6 IEC 3	20-C13		
Nominal voltage		230 Vac +/-1% 1-phase							
Frequency		50/60 Hz							
Power factor		Up to 0.9, without power derating							
Overload capability		105% continuous, 120% for 30 seconds, 150% for 10 seconds, >150% transfer to bypass							
Mode of operation		On-line, Eco mode							
Battery									
Autonomy time	50% load	12	13	15	12	13	15		
internal battery (min.)	100% load	6	6	6	6	6	6		
Connectivity and function	on extensions								
Front panel		Display LCD, status LED, function keys							
Communication		Included: USB, EPO, RS232. Optional: dry contact card, SNMP card. Compatible platforms: Windows, Linux, Mac							
Environmental									
Operating temperatu	re range	0°C to +40°C							
Altitude (AMSL)		< 1000 m without power reduction, > 1000 m with reduction of 0.5% per 100 m							
Audible noise at 1 m (dBA)		< 50							
Standards and certifica	tions								
Quality assurance, environment, health and safety		ISO 9001:2015, ISO 14001:2015, BS OHSAS 18001:2007							
Safety		IEC/EN 62040-1							
EMC		IEC/EN 62040-2							
Marking		CE							

^{*}Tower **Rack/Tower \diamond Measurement conditions: optimised parameters, fully charged battery, 0.7 PF



















GALILEO RT 1 kVA



LEONARDO

from 6 kVA _____ to 10 kVA

High-power on-line

1-phase UPS with Rack/Tower convertible design, ideal for networks and servers, small data centres.



Main options

- SNMP card to send UPS status to BMS's by Ethernet connection and SNMP or ModBus over IP protocol to monitor UPS status by any internet browser from workstations and to receive SMS or e-mail alerts from the UPS on any portable device.
- Contact relay card to send UPS status to PLC's, SCADA's or AS400's by voltage free SPDT contacts.
- Battery extension box allowing additional autonomy time to be quickly added.
- · Additional battery charger for external battery box.
- Parallel kit.
- Rail kit Rack/Tower.
- Rack PDU with external sockets and manual bypass switch.

Features and benefits

- On-line double conversion UPS from 6 to 10 kVA, Tower and 2U or 3U Rack/Tower.
- Parallel redundant configuration maximizing the availability.
- Rack/Tower convertible design to protect your investment when migrating from tower to rack-mount environment. Both UPS and display panel can be rotated.
- Easy installation and set up, user replaceable and upgradable battery.
- Intuitive LCD display providing easy-to-read UPS status and power information.
- Audible alarm alerts upon utility power and UPS status change.
- Smart cooling system ensuring further energy savings.
- Active harmonic power quality control ensuring 0.99 input PF and THDi<3% for maximum compatibility with sources.

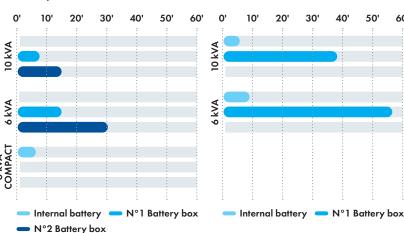
- Automatic self test and advanced battery management maximizing battery performance and extending battery life.
- Remote emergency power off to guarantee your piece of mind in critical applications.
- Internal manual bypass for safe and easy maintenance.
- RS232 communication port providing UPS management.
- Two slots auto-sensing communication cards.

Back up time for

Tower UPS

- Cold start for powering loads when mains are not available.
- Borri Power Guardian user-friendly UPS management software with alerts upon main power failures and system shutdown notification via SMS and email, free downloadable at www.borri.it/download (for more info see p.20/21).

Rack/Tower UPS



Back up time for



LEONARDO technical data

UPS Type Rating (kVA) Nominal Power (kW)		T *	T *	RT (2U) ***	RT (4U) **	RT (3U) ***			
		6	10	6	6	10			
		5.4	9	5.4	5.4	9			
UPS dimensions WxDxH (mm)		290x645x748	290x645x748	440x680x88	440x680x176	440x680x132			
UPS weight (k	g)	86	96	24	52	26			
nput									
Connection ty	ре	Hardwired 2w (rectifier), 2w (bypass) Hardwired 2w							
Nominal voltage		230 Vac 1-phase							
Voltage range		160 to 280 Vac							
Frequency and range		50/60 Hz, 45 to 65 Hz							
Power factor		0.99							
Current distortion	(THDi)			<6%					
Output									
Connection ty	ре	Hardwired 2w							
Nominal voltage		230 Vac +/-1% 1-phase							
Frequency		50/60 Hz							
Power factor	r	Up to 0.9, without power derating							
Overload capability		104% continuous, 150% for 160 seconds, >150% transfer to bypass							
Mode of operation		On-line, Eco mode							
Battery									
Autonomy time	50% load	25	17	external battery	15	external batter			
internal battery (min.)	100% load	9	6	external battery	6	external batter			
Connectivity and function	on extensions								
Front panel		Display LCD, status LED, function keys							
Communication		Included: USB, RS232 card, EPO. Optional: dry contact card, SNMP card, RS485 card. Compatible platforms: Windows, Linux, Mac							
Environmental									
Operating temperature range		0°C to +40°C							
Altitude (AMSL)		< 1000 m without power reduction, $>$ 1000 m with reduction of 0.5% per 100 m							
Audible noise at 1 r	n (dBA)			< 50					
Standards and certifica	tions								
Quality assurance, environment, health and safety		ISO 9001:2015, ISO 14001:2015, BS OHSAS 18001:2007							
Safety		IEC/EN 62040-1							
EMC		IEC/EN 62040-2							
Marking		CE							

^{*}Tower with internal battery **Rack/Tower with internal battery ***Rack/Tower without internal battery

[♦] Measurement conditions: optimised parameters, fully charged battery, 0.7 PF





LEONARDO RT (4U) 6 KVA



LEONARDO RT (3U) 10 kVA

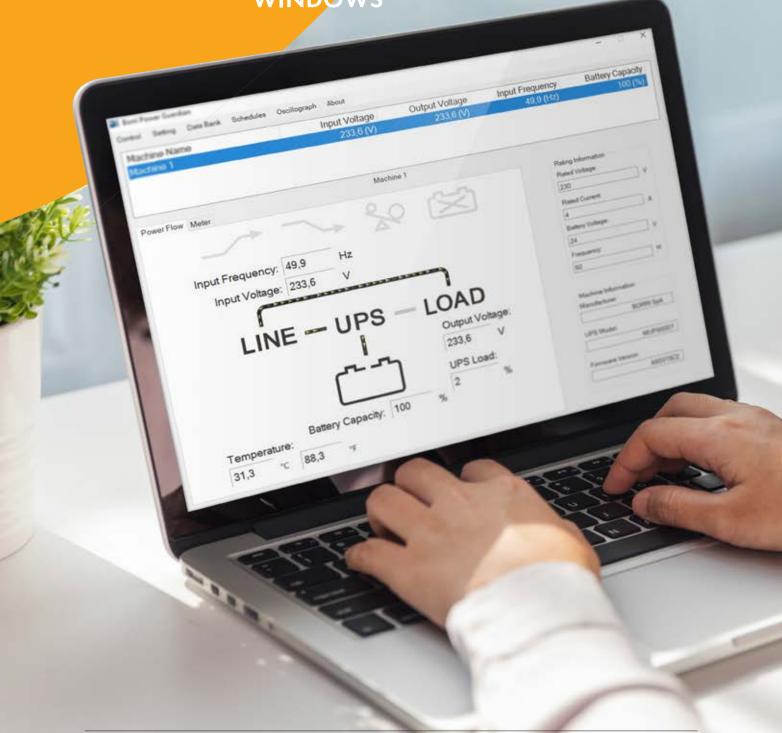


LEONARDO RT (2U) 6 kVA



POWER GUARDIAN 1-PH UPS MONITORING SOFTWARE

available for MAC and MICROSOFT WINDOWS





Borri Power Guardian is a **free user-friendly** UPS software, providing monitoring of the UPS status and automatic safe system shutdown during power outages.





Features and benefits

- Fast, easy installation and configuration via USB or RS232 even for first-time users.
- Automatic orderly application and system shutdown.
- Preventing potential data corruption and hardware damage.
- Alerts on main power failures and system shutdowns notification via SMS and email.
- Automatic self-test of UPS and battery status ensuring early detection of anomalies.
- UPS parameters and power status at a glance. It summarizes graphically and numerically power problems such as blackouts or electrical noise over time and UPS information such as input and output voltage, frequency, temperature, loads and battery capacity.
- Customised settings for tailormade solutions.
- Available for MAC and Microsoft Windows operating systems (complete list at www.borri.it/ download).
- Download Borri Power Guardian free software at www.borri.it/ download.



