

LEONARDO

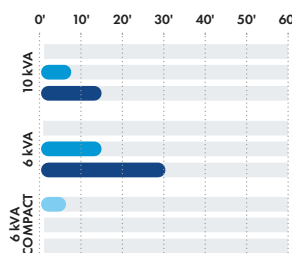
from 6 kVA — to 10 kVA



Main options

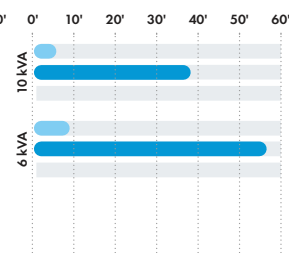
- SNMP card to send UPS status to BMS's by Ethernet connection and SNMP or ModBus over IP protocol to monitor UPS status by any internet browser from workstations and to receive SMS or e-mail alerts from the UPS on any portable device.
- Contact relay card to send UPS status to PLC's, SCADA's or AS400's 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.

Back up time for Rack/Tower UPS



— Internal battery — N°1 Battery box — N°2 Battery box

Back up time for Tower UPS



— Internal battery — N°1 Battery box — N°2 Battery box

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

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.
- 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).

LEONARDO technical data

UPS Type	T *	T *	RT (2U) ***	RT (4U) **	RT (3U) ***
Rating (kVA)	6	10	6	6	10
Nominal Power (kW)	5.4	9	5.4	5.4	9
UPS dimensions WxDxH (mm)	290x645x748	290x645x748	440x680x88	440x680x176	440x680x132
UPS weight (kg)	86	96	24	52	26

Input	
Connection type	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 type	Hardwired 2w
Nominal voltage	230 Vac +/-1% 1-phase
Frequency	50/60 Hz
Power factor	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 internal battery (min.)	50% load / 100% load
25	17
external battery	15
external battery	6

Connectivity and function 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 m (dBA)	< 50

Standards and certifications	
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

