

SIRIO

SIRIO is a high-end UPS platform, designed to meet demanding power requirements without compromising reliability or performance. SIRIO ensures high power availability by combining high efficiency, a robust architecture and a scalable design for mission-critical applications.



100% made in Italy

The POWERTRONIX SIRIO UPS is based on online double-conversion VFI technology, delivering high-quality power and reliable backup for IT and electrical infrastructure in corporate, medical, banking and industrial environments. Its multilevel IGBT architecture ensures high efficiency, maximum reliability and stable operation over a wide range of load conditions. The system includes a broad range of standard features and options, including a multilingual LCD, communication interfaces, dual mains input, internal manual bypass and parallel operation. This versatility makes SIRIO a flexible yet robust solution, ideal for high-power three-phase loads and mission-critical applications.

TYPICAL APPLICATIONS:

- Industry
- Medical
- Data centers and IT networks
- Logistics and transport
- Shopping centres
- Large buildings

VFI-SS-111

3-3 -

250kVA-500kVA

MODEL	SR250	SR300	SR400	SR500
RATED POWER (kVA)	250	300	400	500
ACTIVE POWER (kW)	225	270	360	450
UPS EFFICIENCY (VFI-SS-111)		Up to 95% at full load		

TECHNICAL SPECIFICATIONS

INPUT

NOMINAL VOLTAGE	380/400 VAC (5 wires)
VOLTAGE TOLERANCE	Standard $\pm 20\%$ at 100% load, without derating Expandable to 415 VAC -25%/+15% with optional kit
NOMINAL FREQUENCY	50/60 Hz $\pm 10\%$
MAXIMUM CURRENT DISTORTION	$\leq 3\%$
POWER FACTOR	≥ 0.99

OUTPUT

NOMINAL OUTPUT VOLTAGE	380/400 VAC (4 wires) $\pm 1\%$ (415 VAC optional)
FREQUENCY	50/60 Hz
FREQUENCY TOLERANCE	$\pm 0.1\%$
MAXIMUM VOLTAGE DISTORTION	$\leq 3\%$ at 100% linear load
CREST FACTOR	3:1
PERMITTED OVERLOAD	100-125%: 10 min; 125-150%: 1 min; >150% on bypass

BYPASS

NOMINAL BYPASS VOLTAGE	380/400 VAC (4 wires) $\pm 10\%$
MAXIMUM OVERLOAD	10 In for 100 ms

BATTERY

BATTERY CONFIGURATION	External - strings of 2 x 30 blocks +N 13.5 VDC/block; 0.1C-0.3C selectable (factory setting: 0.1C)
COMPATIBILITY	VRLA-AGM / VRLA-GEL / NiCd
BATTERY MANAGEMENT	Auto test / Equalisation / intelligent battery management Boost charging and temperature compensation (optional)

GENERAL

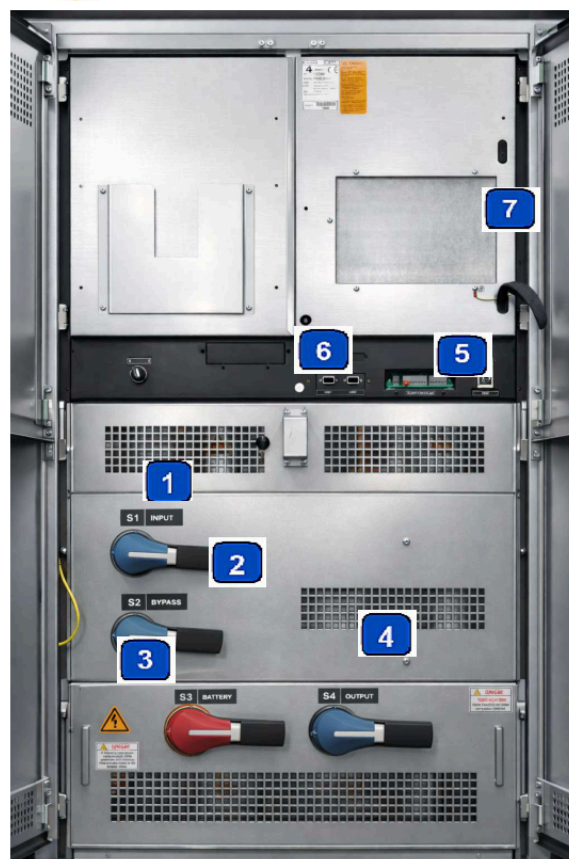
DIMENSIONS (W x D x H mm)	880x850x1975		1245x880x2000	
WEIGHT kg (without batteries)	550	635	680	890
OPERATING CONDITIONS	0-40°C; RH up to 90%, non-condensing; 1,000 m a.s.l.			
NOISE	≤68 dB(A)		≤72 dB(A)	
EXTERNAL INTERFACES	5-inch TFT vector display; alarms; 2 x RS232; 4 dry contacts; EPO OPTIONS: SNMP, MODBUS, 4 extra dry contacts, remote panel			
IP RATING AND CLASSIFICATION	CLASS 1 - IP20 (standard) Other IP ratings available on request			

STANDARDS

EU DIRECTIVES	LV 2014/35/EU Low Voltage Directive; EMC 2014/30/EU; CE marking
STANDARDS	IEC EN 62040-1 Safety; IEC EN 62040-2 EMC; RoHS; IEC EN 62040-3, online double conversion, VFI-SS-111

Advanced features

- Fully digital DSP-controlled architecture for fast, precise control of all UPS operating phases and stable performance with dynamic loads;
- Dedicated DSPs for the inverter and PFC ensure excellent system stability, accurate power regulation and greater overall reliability;
- Advanced self-diagnostics and event logging, with time-stamped alarms to support preventive maintenance;
- Automatic battery testing and remaining-runtime indication for safe, predictable system operation;
- Advanced battery management with multi-level protection and optimised charging algorithms to extend service life;
- High battery recharge capacity, with optional temperature-compensated charging for rapid recovery;
- Separate bypass input (split bypass) for greater system availability and operating flexibility;
- Comprehensive protection, including short circuit, overload, output current limiting and DC leakage protection;
- Native integration with BMS and remote monitoring via SNMP, MODBUS (RS485/TCP-IP) and dry contacts for complete plant supervision and control.



1 OUTPUT SWITCH

3 BYPASS INPUT

5 SMART SLOT

**7 EMERGENCY
BUTTON**

2 INPUT SWITCH

4 MANUAL BYPASS

6 PARALLEL SLOT

Accessories:

+ SNMP/TCP-IP

+ REMOTE PANEL

+ MODBUS

The SIRIO series can be integrated into the local network (LAN), enabling remote monitoring and control of UPS status. Alarms can be generated, managed and shared via TCP/IP.

As an option, the SIRIO series can be equipped with an external remote-control panel. It provides complete monitoring and full operational control of the UPS.

As an option, the SIRIO series can be equipped with Modbus via RS485 or TCP/IP for complete integration into Building Management Systems (BMS).

POWERTRONIX
Secure Power
Innovation That Saves