

Vision Dual

1:1 1100-3000 VA



HIGHLIGHTS

- **Automatic Voltage Regulation (AVR)**
- **Superior protection**
- **High efficiency**
- **High availability**
- **Versatility**
- **Advanced communications**

The Vision Dual range (tower and rack), includes models from 1100 VA to 3000 VA with sinusoidal digital technology. The Vision Dual range, with its advanced communications and connectivity options, is the ideal solution for installations requiring superior protection and versatility in the power supply system. Vision Dual is the ideal solution for the protection of peripheral network devices, conventional or rack servers and network back-up systems. Vision Dual has a practical, modern design and includes several performance advantages over traditional ON LINE UPS. All developed by the Riello UPS research and development team. The UPS provides efficiency levels of

98% and therefore reduced energy consumption. It has an output power factor of 0.9.

SUPERIOR PROTECTION

The automatic voltage regulator (AVR) provides protection from surges, overvoltages and undervoltages, without battery intervention. Reduced battery usage ensures that the battery set is 100% available for mains power supply failures and is able to provide greater autonomy. EMI filters then provide further protection from voltage surges and transients. When the mains power supply fails, the load is powered by the inverter and receives a perfectly sinusoidal supply for maximum power continuity and reliability.



HIGH AVAILABILITY

An EnergyShare socket allows load-shedding and the shutdown of less sensitive peripheral devices to extend battery runtime for critical loads. "Hot Swap" batteries can be removed via the front panel for easy and safe UPS maintenance. For business continuity applications requiring long battery runtimes, battery autonomy can be extended up to several hours using ER models (versions 2200 and 3000) fitted with more powerful battery chargers. Battery test facility to detect deteriorating battery performance. Deep discharge protection to reduce battery ageing.

VERSATILITY

Vision Dual can be installed as a tower or in 19" rack cabinets. The display panel can be easily removed and rotated to suit the type of installation required. Vision Dual is equipped with an emergency power off (EPO) contact that allows for remote shutdown in emergency situations. Cold Start function to allow the UPS to power up with no mains power supply present. Vision Dual models have a backlit LCD display providing UPS status information, load and battery performance.

ADVANCED COMMUNICATIONS

- Advanced multi-platform communications for all operating systems and network environments: PowerShield³ supervision and shutdown software for Windows operating systems 10, 8, 7, Hyper-V, 2019, 2016, 2012 and previous versions, Mac OS X, Linux, VMWare ESXi, Citrix XenServer and other Unix operating systems;
- USB or RS232 serial port interface (selectable);
- Expansion slot for SNMP agent interface boards;
- Status, measurements, alarms and input, output and battery parameters available on LCD display.

2-YEAR WARRANTY



OPTIONS

SOFTWARE

PowerShield³
PowerNetGuard

ACCESSORIES

NETMAN 208
MULTICOM 302
MULTICOM 352
MULTICOM 372
MULTICOM 384

MULTICOM 411

MULTICOM 421

MULTI I/O

MULTIPANEL

Manual Bypass 16 A

Manual Bypass 16 A Rack

PRODUCT ACCESSORIES

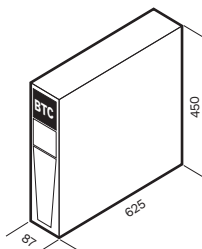
Universal rails for installation in rack cabinets

BATTERY CABINET

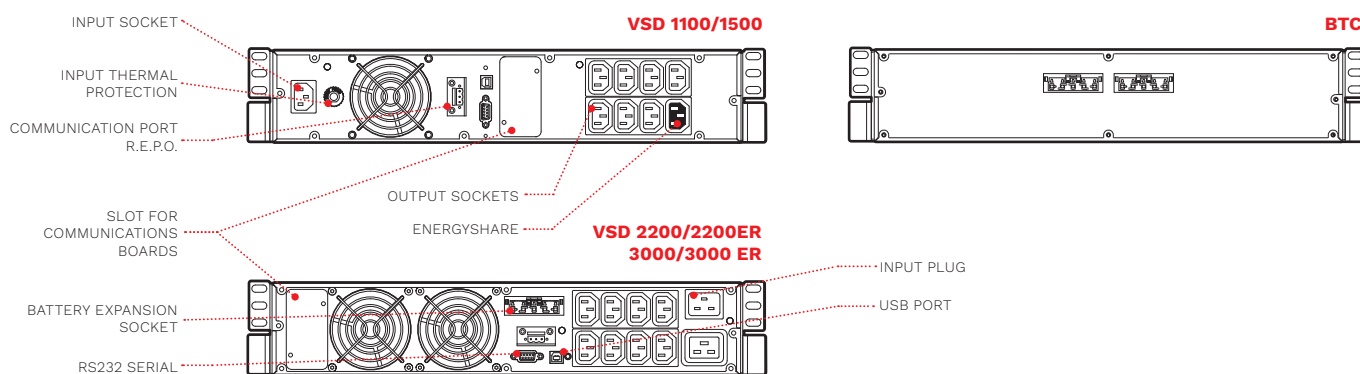
MODELS

BTC SDH 72V BB A3
BTC SDH 72V BB M1

Dimensions
[mm]



DETAILS



MODELS	VSD 1100	VSD 1500	VSD 2200	VSD 2200 ER	VSD 3000	VSD 3000 ER
POWER	1100 VA/990 W	1500 VA/1350 W	2200 VA/1980 W	2200 VA/1760 W	3000 VA/2700 W	3000 VA/2400 W
INPUT						
Rated voltage [V]	220 / 230 / 240					
Voltage range without battery intervention [V]	162 <Vin <290					
Voltage tolerance [V]	162 - 290					
Maximum permitted voltage [V]	300					
Rated frequency [Hz]	50 or 60 ±5					
Frequency tolerance [Hz]	50 ±5% / 60 ±5%					
Power factor	>0.98					
Current distortion	≤7%					
OUTPUT						
Voltage distortion with linear load / with non-linear load	<3% / <8%					
Frequency [Hz]	Selectable: 50 or 60 or self-learning					
Waveform	Sinusoidal					
Current crest factor	2.5 : 1					
Efficiency ECO and SMART ACTIVE Modes	98.5%					
Overload Times	125% for 10 s, 150% for 1 s					
BATTERIES						
Type	VRLA AGM maintenance-free lead based					
Recharge time	2-4 h					
OVERALL SPECIFICATIONS						
Net weight [kg]	16.5	17.5	28	15.5	31.5	16.5
Gross weight [kg]	20	21	33	20.5	36.5	21.5
Dimensions (WxDxH) [mm]	87x450x425 (19"x425x2U)		87x450x625 (19"x625x2U)			
Packaging dimensions (WxDxH) [mm]	240x500x600		240x600x760			
Protection against overvoltages [J]	300					
Protections	Overcurrent - short circuit - overvoltage - undervoltage - temperature - excessive low battery					
Communications	USB / DB9 with RS232 and contacts / Slot for communications interface					
Input plugs	1x IEC 320 C14 (10 A)		1x IEC 320 C20 (16 A)			
Output sockets	8x IEC 320 C13 (10 A)		8x IEC 320 C13 (10 A) + 1x IEC 320 C19 (16 A)			
Standards	European directives: LV 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant					
Ambient temperature for the UPS	0 °C - +40 °C					
Recommended temperature for battery life	+20 °C - +25 °C					
Range of relative humidity	5-95% non-condensing					
Colour	RAL 9005					
Noise level at 1 m (ECO Mode) [dBA]	<40					
Standard equipment provided	Power cable, serial cable, USB cable, safety manual, quick start guide, user manual					