

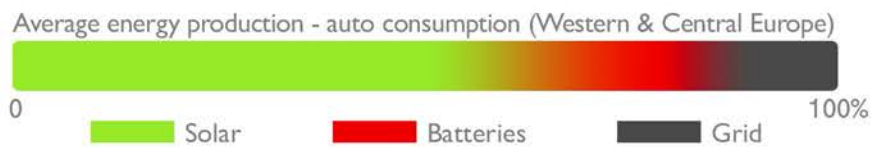
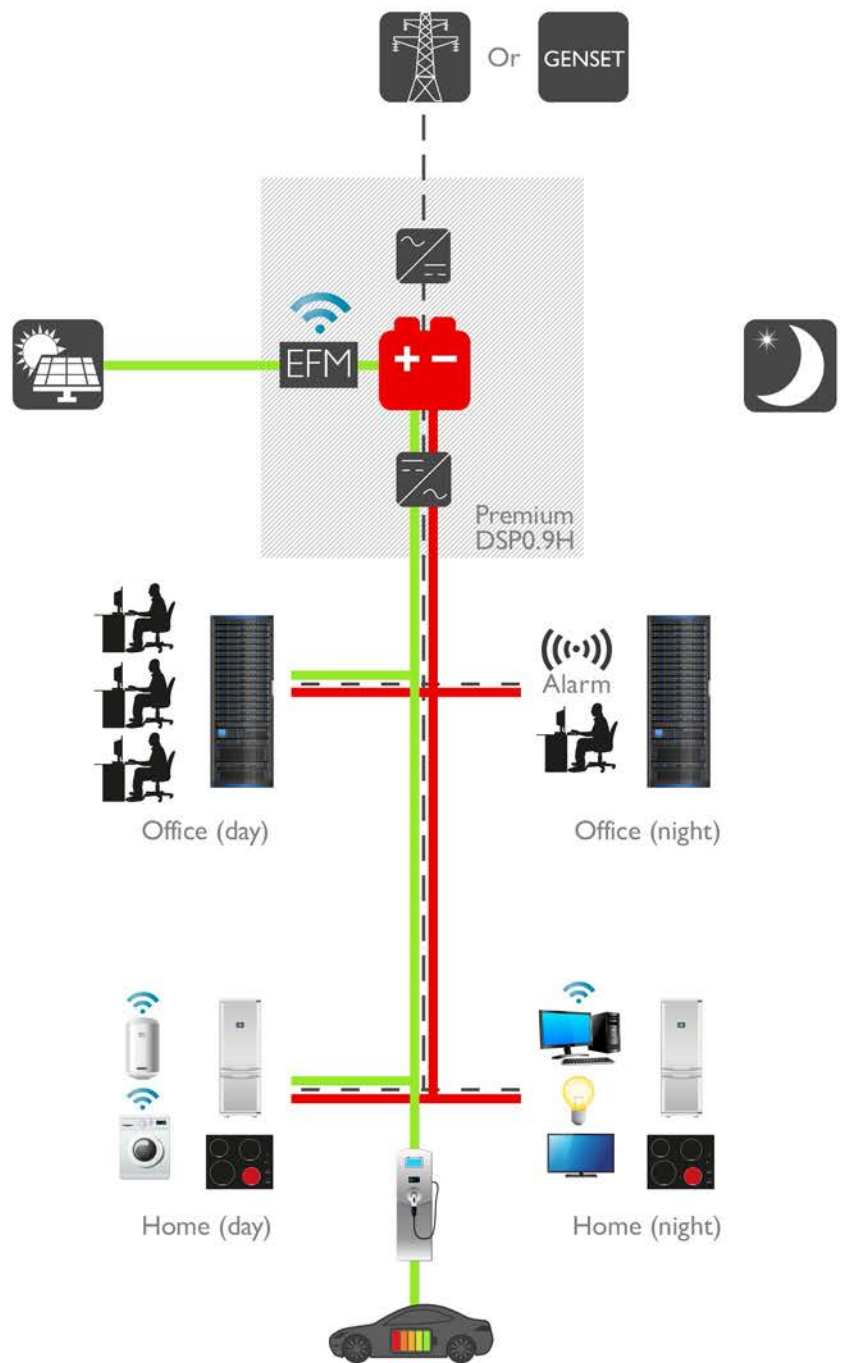


 **VISION** UPS Product Catalogue

2017
18

RADOG d.o.o.

More than a UPS...



Learn more about the Hybrid UPS on page 44

UPS product catalogue | Contents

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Your possibility to reduce the energy consumption and at the same time reduce the CO₂ emissions



Your possibility to improve the efficiency of the UPS

Vision UPS Luxembourg



- European quality and reputation
- Large stock facilities
- Custom-made products
- After sales service
- Wide range of products

Vision UPS Systems

VISION UPS SYSTEMS S.à.r.l. was set up in 2003 in Luxembourg with headquarters in Luxembourg and France (since 2015). We became a worldwide recognized company with partners in more than 40 countries all over the world.



Worldwide

VISION UPS products are protecting all over the world.



Our philosophy

Training

VISION offers to all customers free technical and commercial training.

Installation and Maintenance

VISION offers - in addition to standard instructions - specified technical documentation for installation and maintenance. This allows the technical and maintenance staff to save time on-site and minimize the source of error.

Assistance

VISION acknowledges its part of responsibility for all products during and after the terms of warranty period. We offer technical support and assistance together with our engineers.

Customized solutions

Besides standard solutions, we also offer custom-made solutions for special applications.



References



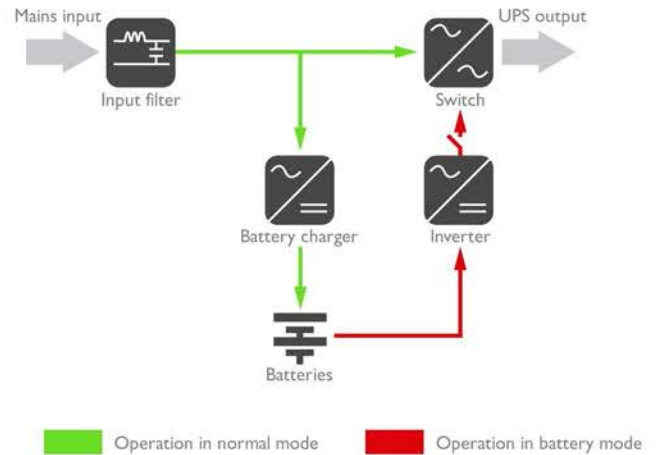
And many more...

Technology | Off-Line

VFD - Voltage & frequency dependant

Passive standby technology (off-line) is a frequently used UPS to protect against **blackout**. In normal mode, the UPS supplies power to the application directly from the mains, filtered but without active conversion. The battery is charged from the mains. In the event of a power failure, the UPS delivers stable power from the battery. Passive standby technology is not suitable if the power supply is of lower quality (industrial sites). Due to the lower protection and less battery lifetime, this type is not recommended/produced by Vision UPS.

Average switching time to battery mode : 10ms

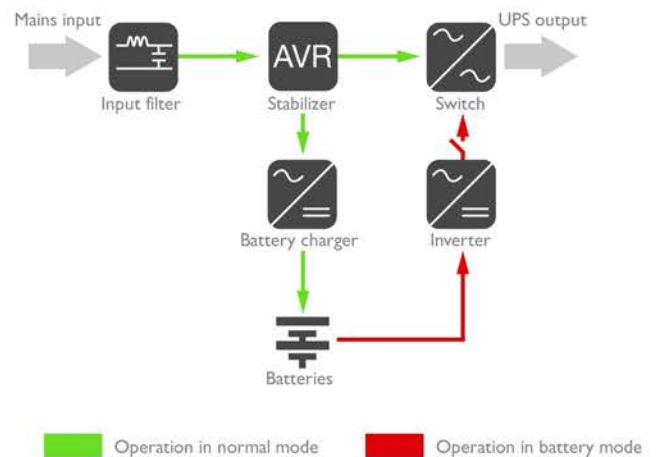


Technology | Line-Interactive

VI - Voltage independant

Line interactive technology is mostly used for enterprise networks and IT applications. It protects from **blackout**, **undervoltage** and **overvoltage**. In normal mode, the device is controlled by a microprocessor that monitors the quality of the supply and reacts to fluctuations. A voltage stabilizer (AVR) is enabled to boost or reduce the supply voltage to compensate the input voltage fluctuations. The main advantage of this technology is that it enables compensation of under- and overvoltage without using the batteries.

Average switching time to battery mode : 4-10ms



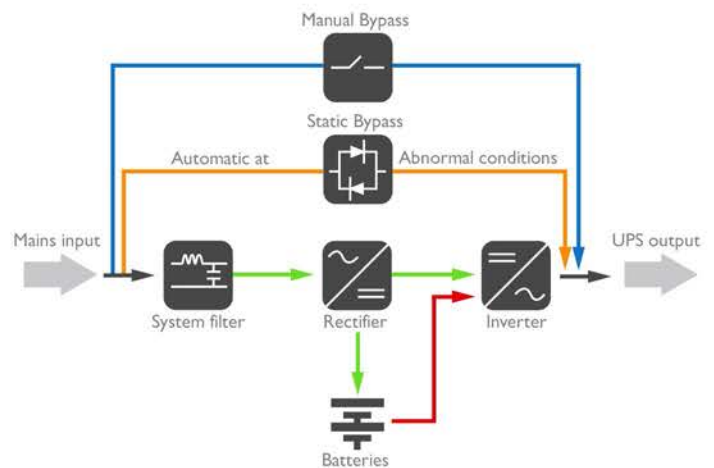
Technology | On-Line

VFI - Voltage & frequency independant

Double conversion technology (on-line) is a basis for UPS designed for continuous power protection from all eight power problems: **power failure**, **undervoltage**, **overvoltage**, **frequency variation**, **voltage harmonics**, **voltage distortion**, **high-frequency transient**, (**power surge** with galvanic isolation). It ensures a consistent quality of power supply regardless of disturbances in the incoming mains. The output voltage is entirely regenerated by a sequence of AC to DC conversion followed by DC to AC conversion in order to create a 100% clean power. Double conversion UPSs can be used with any type of equipment as there is no switching when changing over to battery power.

Switching time to battery mode : 0ms

■ Operation in normal mode
 ■ Operation in battery mode
 ■ Operation in static Bypass
 ■ Operation in manual Bypass



Technical problems | Vision solutions

Technology | Off-Line (VFD)

Protection against :



Blackout

Due to the lower protection level, this type is not recommended/produced by Vision UPS.

Technology | Line-interactive (VI)

Protection against :



Blackout



Overvoltage



Undervoltage

Technology | On-line (VFI)

Protection against :



Blackout



Overvoltage



Undervoltage



High-frequency transient



Frequency variation



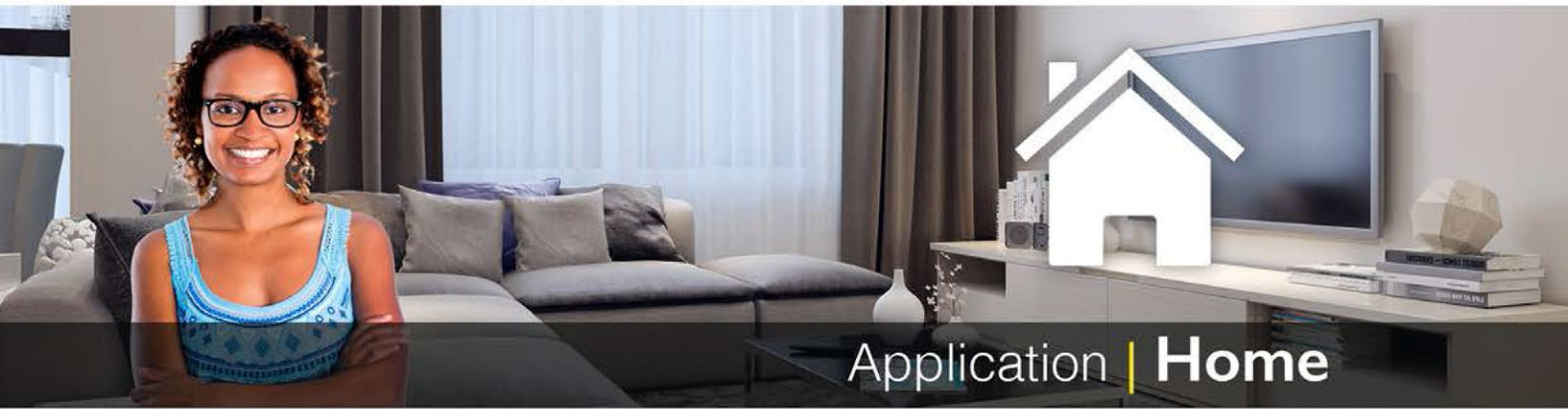
Voltage harmonics



Voltage distortion



Power surge (lightning...)



Application | **Home**



Marathon Home
800-1500VA



Pro Blue Rack
750-1600VA



Budget Pro LED
650-2200VA



Budget Pro LCD
650-2200VA



Solar Hybrid
1000-20000VA



Plug Protector
600- 800VA



Spirit
1000-3000VA



Marathon On-line
1000-3000VA



Marathon 3/3
20kVA/18kW (3/3)



Premium DSP0.9H
10-500kVA (3/3)
10-30kVA (3/1)



Application | **Alarm, Computer & SoHo**



Marathon Home
800-1500VA



Pro Blue Rack
750-1600VA



Budget Pro LED
650-2200VA



Budget Pro LCD
650-2200VA



Solar Hybrid
1000-20000VA



Plug Protector
600- 800VA



Spirit
1000-3000VA



Marathon On-line
1000-3000VA



Application | IT server



Pro Blue Rack
750-1600VA



Spirit XL
1-3kVA (1/1)



Spirit II
6/10kVA (1/1) (3/1)



Spirit XL II
6/10kVA (1/1) (3/1)



Premium VIS
10-30kVA (3/3)



Marathon 3/3
20kVA/18kW (3/3)



Premium DSP0.9H
10-500kVA (3/3)
10-30kVA (3/1)



ATS
16A/32A



STS
32A/63A/120A



STS
50-600A



Application | Datacenter



Spirit XL
1-3kVA (1/1)



Spirit XL II
6/10kVA (1/1) (3/1)



Marathon 3/3
20kVA/18kW (3/3)



Premium DSP0.9H
10-500kVA (3/3)
10-30kVA (3/1)



VisionMod STR 19"
10-80kVA (3/3)



VisionMod
6-50kVA (1/1) (3/1)
20-800kVA (3/3)



ATS
16A/32A



STS
32A/63A/120A



STS
50-600A



Application | **Healthcare**



Spirit XL
1-3kVA (1/1)



Spirit
1000-3000VA



Marathon On-line
1000-3000VA



Spirit II
6/10kVA (1/1) (3/1)



Premium +33
10-300kVA (3/3)



Premium VIS
10-30kVA (3/3)



Premium DSP0.9H
10-500kVA (3/3)
10-30kVA (3/1)



VisionMod STR 19''
10-80kVA (3/3)



VisionMod
6-50kVA (1/1) (3/1)
20-800kVA (3/3)



STS
50-600A



Application | **Industry**



Marathon 3/3
20kVA/18kW (3/3)



Premium +33
10-300kVA (3/3)



Premium DSP0.9H
10-500kVA (3/3)
10-30kVA (3/1)



VisionMod STR 19''
10-80kVA (3/3)



VisionMod
6-50kVA (1/1) (3/1)
20-800kVA (3/3)



STS
50-600A

UPS Models | Capacities

		kVA: 1 2 3 4 6 10 20 40 80 100 200 300 >400...											Page		
Line-interactive		Plug Protect	0,6-0,8kVA											1/1	12
		Budget Pro LED	0,65-2,2kVA											1/1	14
		Budget Pro LCD	0,65-2,2kVA											1/1	16
		Pro Blue Rack 19"	0,8-2kVA											1/1	18
		Marathon Home	0,8-1,5kVA											1/1	20
On-line		Spirit	1-3kVA											1/1	22
		Marathon On-line	1-3kVA											1/1	24
		Spirit XL	1-3kVA											1/1	26
		Spirit XL II	6-40kVA											1/1 3/1	28
		Spirit II	6-40kVA											1/1 3/1	30
		Premium VIS	10-30kVA											3/3	32
		Premium +33	10-300kVA											3/3	34
		VisionMod STR 19"	10-80kVA											3/3	36
		Marathon 3/3	20-80kVA											3/3	38
		VisionMod	6-800kVA											1/1 3/1 3/3	40
Hybrid		Premium DSP0.9H	10-4000kVA											3/3 3/1	44
		Solar Hybrid	1-20kVA											1/1	48

: Solution for 19" Rack cabinet / : Only with external battery packs for very long backup time

Phases: In/Out

"+" : Including galvanic isolation transformer / "II" : N+1 for parallel redundant use / "XL" : Tower or Rack 19" use

: Your possibility to reduce the energy consumption and at the same time reduce the CO₂ emissions

: Your possibility to improve the efficiency of the UPS

Plug Protector

600 & 800VA



Applications



Features

The Plug Protector UPS, featured with smart microprocessor control design, AVR boost and Buck, Smart USB communication interface and cold start function, is an ideal solution for protecting household and small office systems. In addition, the UPS offer USB charger to recharge mobile, PAD, etc.

Specifications

- Compact & Ergonomic design for desktop, also for wall-mount
 - Line-interactive with AVR Boost and Buck
 - Comprehensive Graphic LCD Display
 - USB Charger for Mobile Phone, PAD
 - Auto Charging at Off Mode
 - Auto-restart Function
 - Cold Start Function
 - USB Interface for Remote Monitoring
 - RJ45 Modem/LAN Internet Protection
 - Outlets for Surge and Backup
 - Including Monitoring Software
- 2 years warranty

LCD Display

Easy read-out status from the screen.
Indicates input voltage, output voltage, load level, battery level, ...

AVR - Boost and Buck

The AVR Boost and Buck automatically corrects either undervoltage or overvoltage condition without unnecessary battery drain and extends the life of the battery.





Plug Protector	Model	
	600	800
Capacity	600VA/360W	800VA/480W
— Input		
Voltage	110/120 VAC or 220/230/240 VAC	
Voltage range	81-145Vac or 162-290Vac	
Frequency range	50/60Hz +/-10% auto-sensing	
— Output		
Voltage regulation	±10% for both AC mode and Battery mode	
Frequency range (battery mode)	60 Hz or 50 Hz ±1Hz	
Transfer time	Typical 2-6 ms, 1 Oms max.	
Waveform (battery mode)	Simulated Sine Wave	
— Battery		
Battery type & number	12V/7Ah x1	12V/9Ah x1
Typical recharge time	6-8 hours recover to 90% capacity	
— Indicators		
AC mode	Green LED lighting	
Battery mode	Amber LED flashing	
Fault	Red LED lighting	
LCD display	Input voltage, output voltage, load level, battery level	
— Protection		
Full protection	Overload and overcharge protection	
— Alarm		
Battery mode	Sounding every 10 seconds	
Low battery	Sounding every second	
overload	Sounding every 0.5 second	
Battery replacement alarm	Sounding every 2 seconds	
Fault	Continuously sounding	
— Physical		
Dimensions (DxWxH, mm)	270 X 190 X 90	
Net weight (kg)	4,3	4,9
— Operating environment		
Humidity	0-90 % RH at 0- 40° C (non-condensing)	
Noise level	Less than 40dB	
— Management		
Optional USB port	Supports Windows®, Linux, Unix, and MAC	
— Charger		
USB charger	for mobile & PAO charging	

Budget Pro | LED

650-2200VA



Applications



LED display



The comprehensive LED display provides easy read-out status of the UPS :

- working on AC or battery mode
- battery level in case of blackout
- fault indicator
- load level

Specifications

- Line-interactive technology (VI)
- Automatic Voltage Regulator (AVR, "Boost and Buck")
- Transfer to battery at under- and overvoltage
- LED display
- Self-diagnostic function
- Battery cold start
- Genset-compatible
- Auto-charging in Off-mode
- Auto-restart function
- Automatic computer shutdown
- Audible and visible alarm
- Surge protection
- RJ45/11 protection (EMI/RFI filtering)
- USB interface including software
- 2 years warranty

The Budget Pro LED series, featured with smart microprocessor control design, AVR boost and buck, smart USB interface and cold start function, is a cost-effective solution to your mission-critical PC and valuable peripherals.

The AVR Boost and Buck automatically corrects either undervoltage or overvoltage condition without unnecessary battery drain and extends the life of the battery.





Smart USB



It offers real-time power and UPS status monitoring with automatic or scheduled shutdown and many other advanced power management functions.

Monitoring Software Included



Monitoring software for Windows, Mac, Linux included.

Budget Pro LED	Model					
	650	850	1100	1300	1600	2200
Nominal capacity (VA)	650	850	1100	1300	1600	2200
Power (Watt)	360	480	600	720	900	1200
Voltage	220/230/240Vac / 110/120Vac					
Input voltage range	162-290Vac / 81-145Vac					
Voltage stabilizer-AVR	Boost & Buck					
Input frequency	50/60Hz (auto-sensing)					
Output voltage (AC/battery mode)	+/-10%					
Output frequency (battery mode)	50/60Hz +/-1Hz					
Transfer time to battery	Typical : 2-6ms / maximum : 10ms					
Waveform	Simulated sine wave					
Battery (voltage and quantity)	12V (1x7Ah)	12V (1x9Ah)	24V (2x7Ah)		24V (2x9Ah)	
Backup time	5-10 minutes at 70% of nominal load					
Typical recharge time	6-8 hours recover to 90% capacity					
Outlets IEC (Schuko on request)	4 outlets (650-1300VA) / 6 outlets (1600-2200VA) IEC320 C13					
Interface	USB-port					
Protection	Overvoltage, short-circuit, overload, battery deep discharge					
Visual indication-LED	LED display					
Acoustic information	Battery mode - low battery - overload - battery replacement alarm - fault					
Humidity / Noise level	0-90% at 0-40°C (non-condensing) / less than 40dB					
Dimensions WxDxH	101x302x142mm		149x338x160mm		158x380x196mm	
Weight	4,3kg	4,9kg	7,8kg	8kg	11,1kg	11,5kg
Warranty	2 years					
Software	For Windows, Mac, Linux					

Budget Pro | LCD

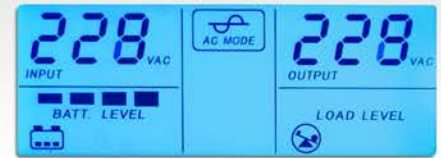
650-2200VA



Applications



LCD display



The comprehensive graphic display provides easy read-out status of the UPS from the screen, such as input, voltage, load level, battery level...

Specifications

- Line-interactive technology (VI)
- Automatic Voltage Regulator (AVR, "Boost and Buck")
- Transfer to battery at under- and overvoltage
- Big LCD display
- Self-diagnostic function
- Battery cold start
- Genset-compatible
- Auto-charging in Off-mode
- Auto-restart function
- Automatic computer shutdown
- Audible and visible alarm
- Surge protection
- RJ45/11 protection (EMI/RFI filtering)
- USB interface including software
- 2 years warranty

The Budget Pro LCD series, featured with smart microprocessor control design, AVR boost and buck, smart USB interface and cold start function, is a cost-effective solution to your mission-critical PC and valuable peripherals.

The AVR Boost and Buck automatically corrects either undervoltage or overvoltage condition without unnecessary battery drain and extends the life of the battery.





Smart USB



It offers real-time power and UPS status monitoring with automatic or scheduled shutdown and many other advanced power management functions.

Monitoring Software Included



Monitoring software for Windows, Mac, Linux included.

Budget Pro LCD	Model					
	650	850	1100	1300	1600	2200
Nominal capacity (VA)	650	850	1100	1300	1600	2200
Power (Watt)	360	480	600	720	900	1200
Voltage	220/230/240Vac / 110/120Vac					
Input voltage range	162-290Vac / 81-145Vac					
Voltage stabilizer-AVR	Boost & Buck					
Input frequency	50/60Hz (auto-sensing)					
Output voltage (AC/battery mode)	+/-10%					
Output frequency (battery mode)	50/60Hz +/-1Hz					
Transfer time to battery	Typical : 2-6ms / maximum : 10ms					
Waveform	Simulated sine wave					
Battery (voltage and quantity)	12V (1x7Ah)	12V (1x9Ah)	24V (2x7Ah)		24V (2x9Ah)	
Backup time	5-10 minutes at 70% of nominal load					
Typical recharge time	6-8 hours recover to 90% capacity					
Outlets IEC (Schuko on request)	4 outlets (650-1300VA) / 6 outlets (1600-2200VA) IEC320 C13					
Interface	USB-port					
Protection	Overvoltage, short-circuit, overload, battery deep discharge					
LCD information	Big LCD display					
Acoustic information	Battery mode - low battery - overload - battery replacement alarm - fault					
Humidity / Noise level	0-90% at 0-40°C (non-condensing) / less than 40dB					
Dimensions WxDxH	101x302x142mm		149x338x160mm		158x380x196mm	
Weight	4,3kg	4,9kg	7,8kg	8kg	11,1kg	11,5kg
Warranty	2 years					
Software	For Windows, Mac, Linux					

Pro Blue Rack

800, 1000 & 2000VA



Applications



The best quality/price ratio

The Pro Blue Rack is an ideal solution for small server IT 19" Racks. Thanks to its small depth, the UPS can fit in almost any 19" cabinets.

Specifications

- Line-interactive technology (VI)
 - Microprocessor control guarantees high reliability
 - Auto restart while AC is recovering
 - Simulated sine wave output
 - Off-mode charging
 - Transfer to battery at under- and overvoltage
 - UPS with intelligent LCD display
 - Automatic computer shutdown
 - Automatic Voltage Regulator (AVR, "Boost and Buck")
 - Very wide input and voltage range
 - Battery (DC) cold start
 - Overload and short circuit protection
 - Audible and visible alarm
 - USB interface including software
- 2 years warranty

LCD display indicator

The multi-functional indicator operates with blue backlight LCD and shows all input, output, load and battery parameters.





Smart USB



It offers real-time power and UPS status monitoring with automatic or scheduled shutdown and many other advanced power management functions.

Monitoring Software Included



Monitoring software for Windows, Mac, Linux included.

Pro Blue Rack	Model		
	800VA	1000VA	2000VA
Power (Watt)	480W	600W	1200W
Input voltage	220/230/240 Vac		
Input voltage range	162-290 Vac		
Output voltage regulation	+/- 10%		
Transfer time	Typical 2-6 ms, 10 ms max.		
Waveform	Simulated sine wave		
Type & number of battery	12V/9Ah x1	12V/7Ah x2	12V/9Ah x2
Battery charging time	4-6 hours recover to 90% capacity		
Humidity	0-90% RH at 0-40°C (non-condensing)		
Noise level	Less than 40dB		
USB	Supports Windows family, Linux, Unix and MAC		
Dimensions (DxWxH), mm	230x438x86	300x438x86	300x438x86
Weight, kg	7,7	11,3	14,4

Marathon Home

800-1500VA



Applications



Perfect for home applications

Only available with external batteries for long backup time. Perfect for all home and domestic applications.

Specifications

- Line-interactive technology (VI) with pure sine wave output
- Only with external batteries
- Big charger: 10/20A (adjustable)
- Automatic Voltage Regulator - AVR
- Transfer to battery at under- and overvoltage
- LED indication
- Battery (DC) cold start
- Wide input voltage range: 130-290Vac
- Fully digitalized microprocessor controlled
- Energy saving function with UPS Green Mode
- Audible and visible alarm
- Surge protection
- Wide application range: Charger/Inverter/UPS

- 2 years warranty

Backup time table (with external battery pack)

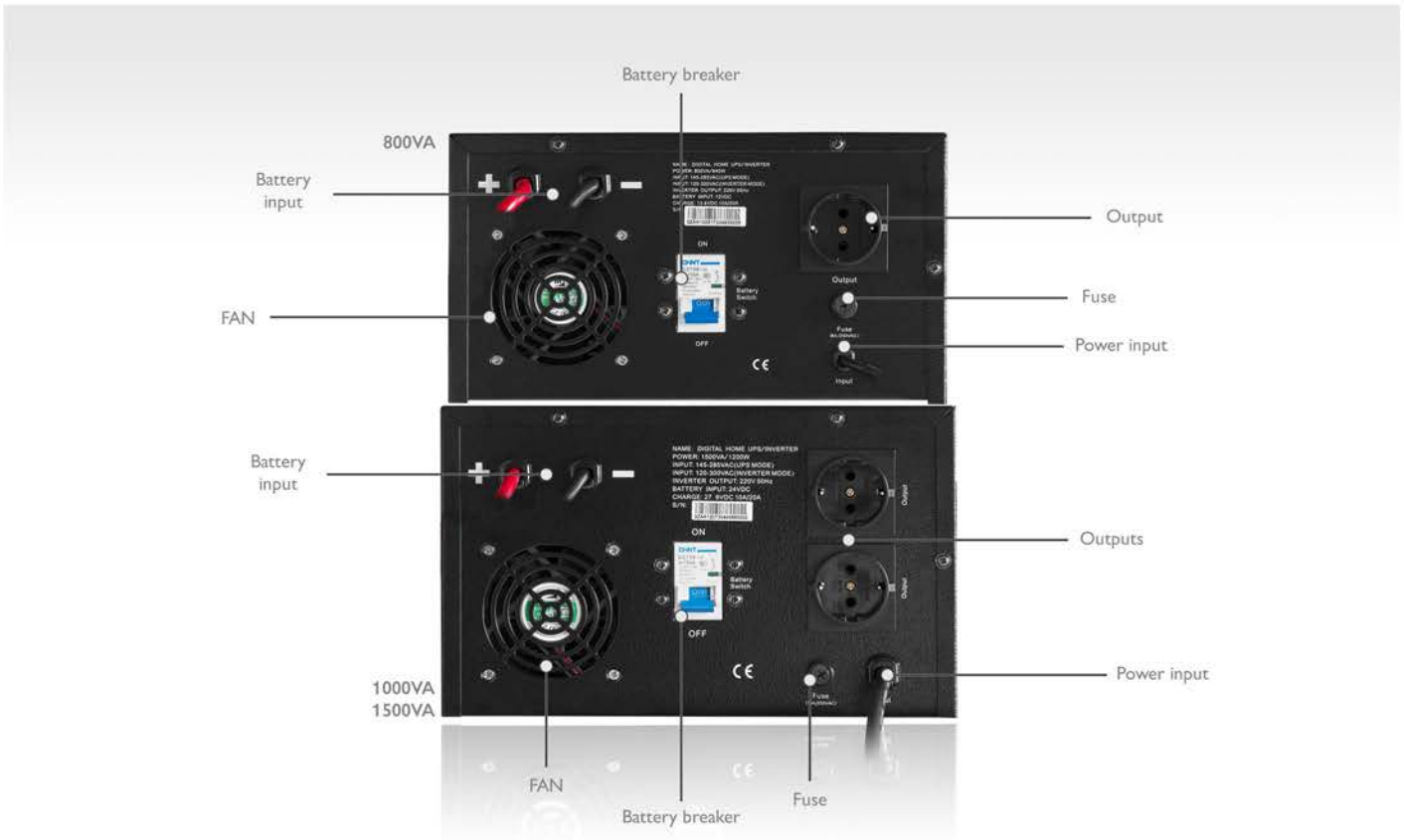
UPS with battery pack		Load in Watt						
		150W	300W	400W	600W	800W	1000W	1200W
Marathon Home 800VA	BP0265	460min	210min	150min	90min			
	BP02100	750min	360min	240min	160min			
Marathon Home 1000VA	BP0465	1300min	560min	330min	210min	160min		
Marathon Home 1500VA	BP0465 BP04100						120min 210min	90min 160min

Backup times in minutes

Cabinet for 4 batteries
BP0465 and BP04100



Cabinet for 2 batteries
BP0265 and BP02100



Marathon Home	Model		
	800VA	1000VA	1500VA
Power (Watt)	640W	800W	1200W
Technology	Line-interactive UPS (VI, voltage independent)		
— Input			
Min. voltage UPS-mode/inverter mode	145Vac (computer load) UPS / 120Vac (domestic load) INV		
Max. voltage UPS-mode/inverter mode	285Vac (computer load) UPS / 300Vac (domestic load) INV		
Frequency	38-70Hz		
Battery switching time	8-10ms (computer load), 0,5ms (domestic load)		
— Output			
Voltage	220/230Vac		
Waveform	Pure sine wave		
Frequency	50Hz +/-1Hz		
Voltage regulation	220Vac +/-10%		
Crest factor	2,5 : 1		
Efficiency	≥ 92%		
— Battery			
Type	VRLA, AGM, Gel, OPZv		
Voltage	12Vdc	24Vdc	
Internal charger power (without batteries)	10/20A		
— Protection			
Input / Output protection against	Overvoltage, short-circuit, overload, battery deep discharge		
— Alarms - informations			
Audible LED	Battery mode, low battery, overload, battery replacement, alarm fault AC or battery mode, load level, battery level, fault		
— Standard			
Certificates	CE, ISO, GOST		
— Environment			
Temperature / Altitude / Humidity	0-40°C / less than 1500m / 0-95%		
Audible noise at 1m	< 50dB		
— Dimensions			
Weight (without batteries)	13,4kg	15kg	18,6kg
WxDxH	272x285x165mm		320x295x186mm

Spirit

1000-3000VA



Applications



2 Sizes and 3 Power levels



3000VA 2000VA/1000VA

Specifications



- On-line “double conversion” technology (VFI)
- Output power factor 0,9
- DSP (Digital Signal Processor) technology
- Internal static and manual bypass
- Input power factor up to 0.99
- Battery (DC) cold start
- Site wiring fault indication
- Self testing at UPS startup
- RJ45/11 network protection
- EPO Contact
- Intelligent management through RS232 & USB
- For extended backup time check MARATHON series (external batteries)

Options:

- SNMP adapter
- Relay card (dry contacts)
- External maintenance bypass
- Additional / external battery packs

- 2 years warranty

Smallest footprint with best quality/price ratio !



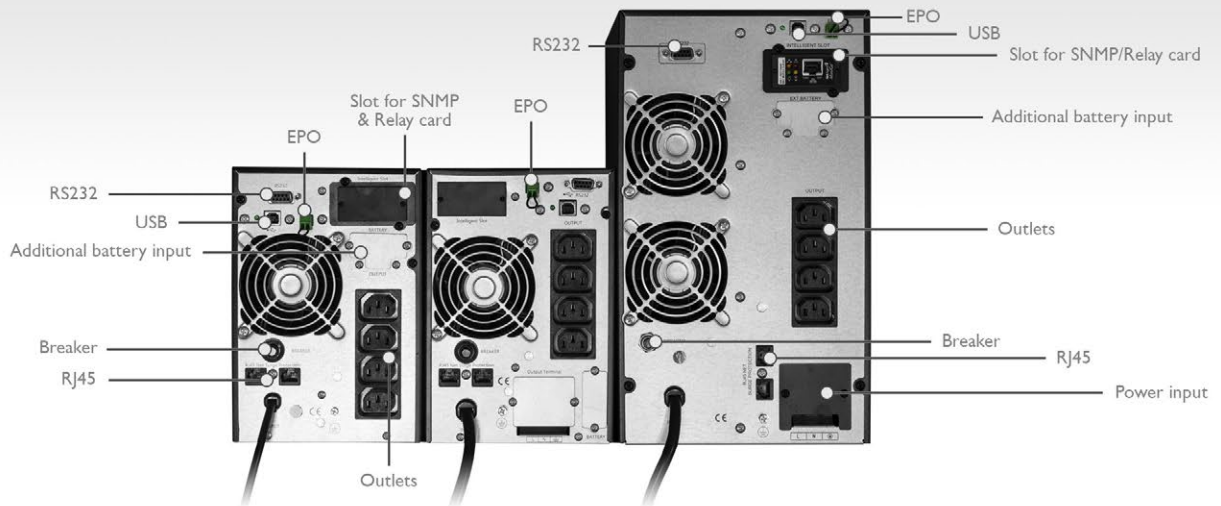
The comprehensive graphic display provides easy read-out status of the UPS from the screen, such as input, voltage, load level, battery level, error code...

Monitoring Software Included

Smart USB



It offers real-time power and UPS status monitoring with automatic or scheduled shutdown and many other advanced power management functions.



Spirit	Model		
	1000VA	2000VA	3000VA
Power (Watt)	900W	1800W	2700W
— Input			
Minimum voltage	160/115Vac (at 100/50% load)		
Maximum voltage	290/295Vac (at 100/50% load)		
Frequency	45-55Hz for 50Hz or 55Hz-65Hz for 60Hz (auto-sensing)		
Input power factor	≥ 0.99		
Bypass voltage range	186-252Vac		
Harmonic distortion (THDi)	≤ 7% at 100% non-linear load		
— Output			
Voltage	208/220/230/240Vac selectable		
Power factor	0,9		
Harmonic distortion (THD)	< 3% at 100% linear load		
Frequency	50/60Hz +/-0,2%		
Voltage regulation	+/-2% at nominal voltage		
Crest factor	3:1		
Efficiency at 75-100% load	>88% (AC mode) / >90% (battery mode) / >94% (ECO mode)		
— Battery (internal)			
Type	VRLA, AGM		
Voltage	24Vdc (2x9Ah)	48Vdc (4x9Ah)	72Vdc (6x9Ah)
Backup time	5-8min with internal batteries at 80% load / extendable with external batteries		
Internal charger power	1A		
— Protection			
RJ11/45 protection	Yes		
Input / Output	Overvoltage, short-circuit, battery deep discharge, thermal protection		
Overload in battery mode	101-150% : 30sec, > 150% : 300msec before inverter cutt off		
Overload in AC mode	101-150% : 30sec, > 150% : 300msec before switching to bypass		
— Alarms - informations			
Audible	Battery backup, battery low, overload status, fault status		
LED	Mains, inverter, bypass, fault, battery level		
LCD	Input & output voltage, load %, battery voltage, error codes		
— Bypass			
Type	Internal (automatic) static bypass (external manual bypass optional)		
— Environment			
Temperature / Altitude / Humidity	0-40°C / less than 1500m / 0-95% non-condensing		
Audible noise at 1m	< 50dB		
— Interface			
Standard	RS232 / USB (software included) / EPO		
Optional	SNMP / Relay card (dry contacts)		
— Dimensions			
Weight	9kg	16,4kg	25,1kg
WxDxH	144x300x215mm	144x420x215mm	195x480x355mm
— Standard			
Certificate	CE		

Marathon on-line

1000-3000VA



Applications



2 Sizes and 3 Power levels



2000/3000VA 1000VA



Specifications

- On-line "double conversion" technology (VFI)
- Perfect for very long backup time (Marathon)
- DSP (Digital Signal Processor) technology
- Internal static and manual bypass
- Intelligent management through USB-interface
- Site wiring fault indication
- Wide input voltage range
- Battery (DC) cold start
- Self testing at UPS startup
- Bypass voltage range can be set
- RJ45/11 network protection
- Input PFC up to 0.99
- Software and USB cable included

Options:

- SNMP card
- Dry contacts/relay
- Marathon XL on request

• 2 years warranty

Backup time table (with external battery pack)

		Load in Watt									
UPS with battery pack		150W	300W	400W	600W	800W	1000W	1200W	1600W	2000W	2400W
Marathon 1000VA	BP0265-6A	460min	210min	150min	90min	60min					
	BP02100-12A	750min	360min	240min	160min	100min					
Marathon 2000VA	BP0465-6A	1300min	560min	330min	210min	160min	120min	90min	60min		
	BP04100-12A	2100min	1000min	600min	380min	260min	210min	160min	100min		
Marathon 3000VA	BP0665-6A	2000min	850min	600min	400min	250min	190min	150min	100min	85min	60min
	BP06100-12A	3300min	1450min	1000min	650min	420min	320min	260min	180min	150min	100min

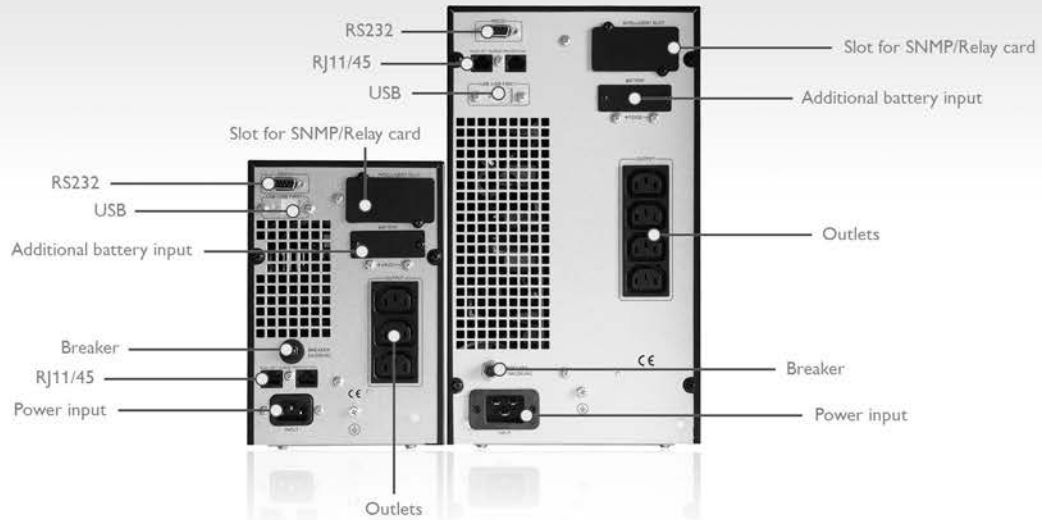
Backup times in minutes

Dimensions (DxWxH) and weight :
 BP0265-6A : 462x470x350mm,54kg
 BP02100-12A : 462x470x350mm,68kg
 BP0465-6A : 462x480x660mm,107kg
 BP04100-12A : 462x480x660mm,136kg
 BP0665-6A : 630x480x660mm,153kg
 BP06100-12A : 630x480x660mm,197kg

Cabinet for 6 batteries

Cabinet for 2 batteries

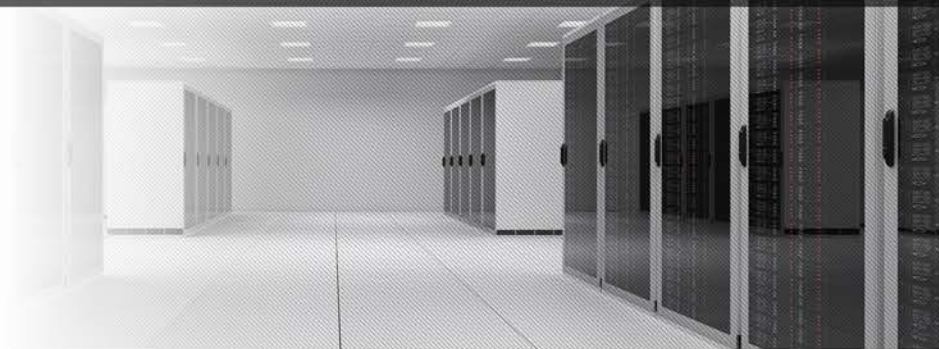




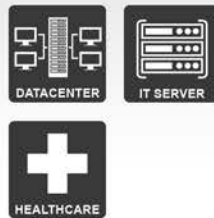
Marathon On-line	Model		
	1000VA	2000VA	3000VA
Power (Watt)	800W	1600W	2400W
Technology	On-line		
— Input			
Minimum voltage	160/115Vac (at 100/50% load)		
Maximum voltage	290/295Vac (at 100/50% load)		
Frequency	45-55Hz for 50Hz or 55-65Hz for 60Hz (auto-sensing)		
Input power factor	≥ 0.99		
Bypass voltage range	186-252Vac		
— Output			
Voltage	208/220/230/240Vac selectable		
Waveform	Pure sine wave		
Frequency	50/60Hz +/-0,2%		
Voltage regulation	+/-2% at nominal voltage		
Crest factor	3:1		
Efficiency at 75-100% load	>88% (AC mode) / >90% (battery mode) / >94% (ECO mode)		
— Battery (external)			
Type	VRLA, AGM		
Voltage	24Vdc	48Vdc	72Vdc
Internal charger power (without batteries)	6A or 12A		
— Protection			
RJ11/45 protection	Yes		
Input / Output	Overvoltage, short-circuit, battery deep discharge, thermal protection		
Overload in battery mode	101-150% : 30sec, > 150% : 300msec before inverter cutt off		
Overload in AC mode	101-150% : 30sec, > 150% : 300msec before switching to bypass		
— Alarms - informations			
Audible	Battery backup, battery low, overload status, fault		
LED	Battery backup, battery low, overload status, fault		
LCD	Input & output voltage, load %, battery voltage, error codes		
— Bypass			
Type	Internal (automatic) static bypass (external manual bypass optional)		
— Standard			
Certificate	CE		
— Environment			
Temperature / Altitude / Humidity	0-40°C / less than 1500m / 0-95%		
Audible noise at 1m	<50dB		
— Interface			
Standard	RS232 / USB (software included)		
Optional	SNMP / Relay card (dry contacts)		
— Dimensions			
Weight (without batteries)	5,5kg	10kg	
WxDxH	144x361x215mm	191x428x337mm	

Spirit XL

1-3kVA (1/1)



Applications



Convertible Rack/Tower



Specifications



- On-line “double conversion” technology (VFI)
- DSP (Digital Signal Processor) technology
- High output power factor at 0.9
- Internal static bypass
- Very large input voltage range
- Hot-swappable batteries
- Battery backup time on LCD
- Operation on ECO mode
- Frequency converter mode 50/60Hz
- Convertible design for 19” Rack or Tower
- 2 output segments for load shedding
- RS232, USB, Smart slot, RJ45, EPO
- Battery (DC) cold start
- Software and USB cable included
- High efficiency up to 95%
- Backfeed protection

Options:

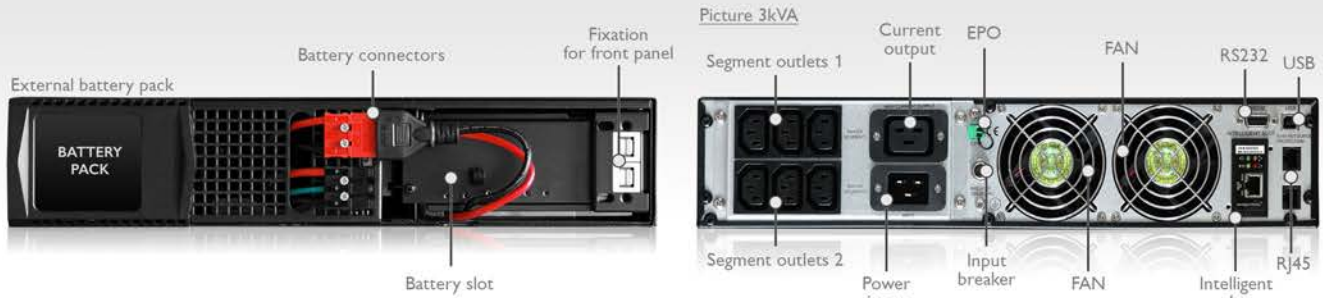
- SNMP adapter
 - Relay card (dry contacts)
 - External maintenance bypass
 - Additional / external battery packs
- 2 years warranty

The Spirit XL is designed for IT applications like datacenters, server rooms, communication systems or security equipments.

The multifunction graphical LCD display is convertible for Rack and Tower use. It shows input, output, battery and user helpful parameters.

The UPS is equipped with an internal hot-swappable battery compartment to ensure very easy and fast maintenance.

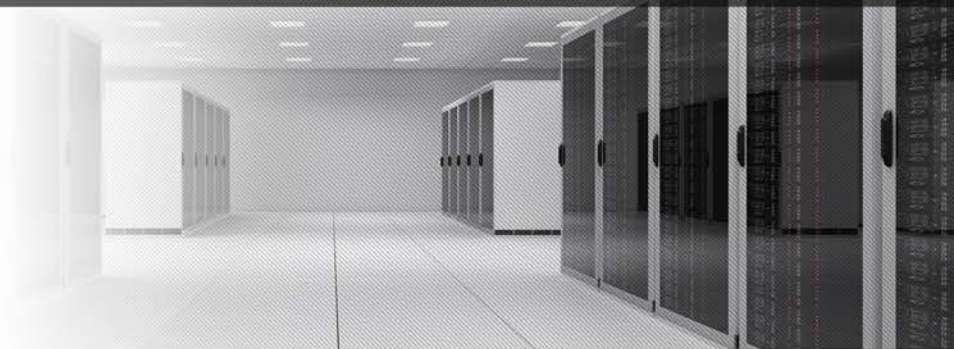




Spirit XL	Model			
	Spirit XL 1kVA	Spirit XL 1,5kVA	Spirit XL 2kVA	Spirit XL 3kVA
Power (VA, Watt)	1000VA / 900W	1500VA / 1350W	2000VA / 1800W	3000VA / 2700W
— Input				
Voltage range	110-290Vac			
Frequency range	45-55Hz for 50Hz / 55-65Hz for 60Hz (auto-sensing)			
Power supply	Single phase			
Power factor	0,99			
Power plug	IEC320 C14-10A	IEC320 C14-10A	IEC320 C14-10A	IEC320 C20-16A
— Output				
Voltage	208/220/230/240Vac selectable			
Power factor	0,9			
Voltage regulation	+/-2% at nominal voltage			
Frequency	50/60Hz +/- 0,02Hz			
Efficiency	AC mode : 90%, ECO mode : >95%			
Harmonic distortion (THD)	≤ 3% THD (linear load), ≤ 5% THD (no-linear load)			
Waveform	Pure sine wave			
Outlets (2 segments)	(IEC C13-10A)x6	(IEC C13-10A)x6	(IEC C13-10A)x6	(IECC13-10A)x6 (IECC19-16A)x1
Overload capacity	30s at 100% to 150% and 300ms >150%			
Protection	Overvoltage, short-circuit, battery deep discharge, thermal protection			
— Efficiency				
ON LINE mode	75-100% load > 88%			
Battery mode	75-100% load > 92%			
ECO mode	75-100% load > 95%			
— Battery (internal)				
Type	VRLA, AGM			
Voltage	12V 9Ah x 2	12V 9Ah x 3	12V 9Ah x 4	12V 9Ah x 6
Autonomy	remaining time on LCD			
Recharge time at 90%	5 hours			
Charge current	1A			
Nominal voltage	24Vdc	36Vdc	48Vdc	72Vdc
Charger mode	3 steps (egalization/boost/floating)			
Backup time	5-10min at nominal load			
— Transfer time				
Mains <---> Battery	0ms			
Mains <---> Bypass	<4ms			
— Alarms - informations				
LCD, LED	Load / battery / input / output / working mode / error code			
— Physical				
Dimensions (WxDxH), mm	440x430x86,5 (2U)	440x430x86,5 (2U)	440x572x86,5 (2U)	440x696x86,5 (2U)
Weight, (kg)	13,7	16,2	22	29,2
— Environment				
Temperature	0-40°C			
Humidity	0-90% (non-condensing)			
Audible noise at 1m	<55dB			
— Interface				
Standard	RS232, USB, EPO, intelligent slot			
Optional	SNMP, relay card			
— Battery pack (additional)				
	BP1000	BP1500	BP2000	BP3000
Dimensions (WxDxH), mm	440x430x86,5 (2U)	440x430x86,5 (2U)	440x572x86,5 (2U)	440x696x86,5 (2U)
Weight, (kg)	19,5	25	32,8	46,3

Spirit XL II

6/10kVA (1/1), (3/1) optional



Applications



Convertible Rack/Tower



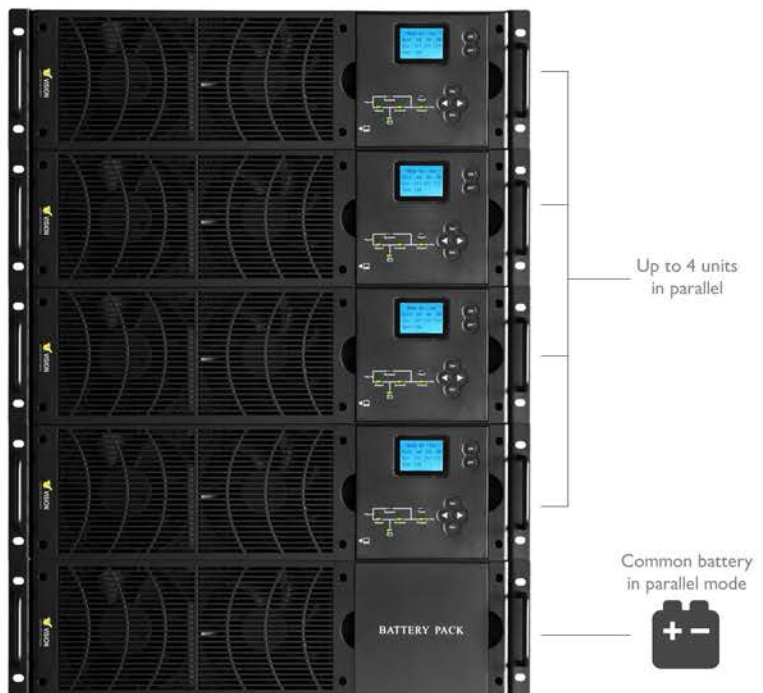
Specifications



- On-line “double conversion” technology (VFI)
- DSP (Digital Signal Processor) technology
- Wide input voltage range (120-276V or 208-478V)
- Wide frequency range 40-70Hz +/-0,5Hz
- Input power factor up to 0.99 and high output power factor 0.9
- Parallel connection up to 4 units (N+1)
- Rack/Tower XL design with convertible display
- Input power factor correction (PFC)
- Battery (DC) cold start
- Genset compatible
- ECO-mode for energy saving
- Self testing at UPS startup
- Internal static and manual bypass
- Selectable amount of batteries : 16/18/20pcs
- Common or separate battery in parallel mode
- Backup-time indication on the display
- Adjustable charger 1-10A
- Fixing for tower and rackmount included
- EPO contact (Emergency Power Off)
- Intelligent management through RS232 slot, USB
- Including monitoring software
- Backfeed protection
- Options:
 - SNMP card, relay card
 - External maintenance bypass
 - Galvanic isolation transformer
 - Spirit XL II version (3/1)
- 2 years warranty

Parallel Redundancy Mode

Up to 4 Spirit XL II systems can be connected in parallel to get maximum power capacity. Only one battery is necessary in the parallel redundancy mode.

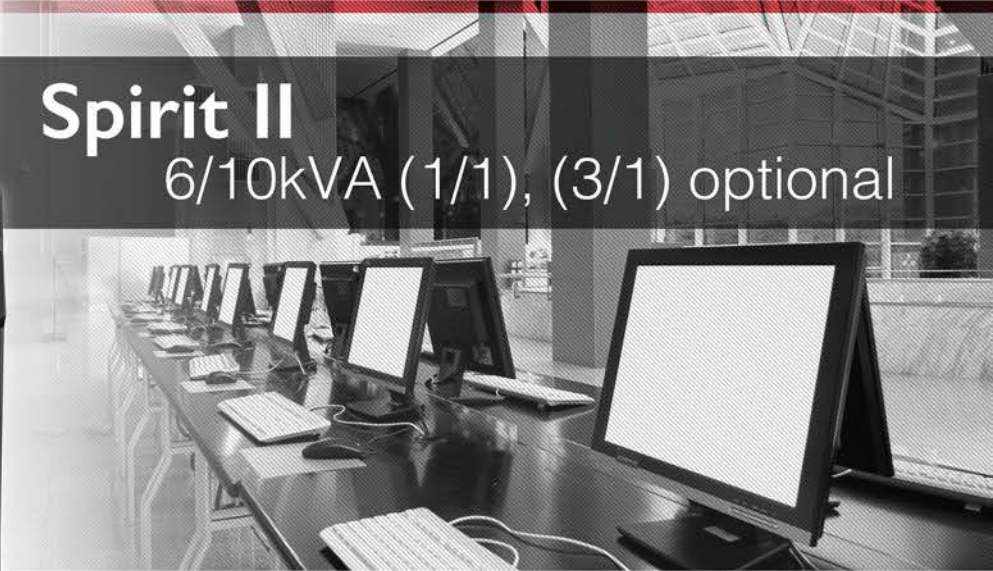




Spirit XL II	Model	
	6kVA	10kVA
Power (kW)	5,4	9
— Input		
Connection	L-N (single phase), optional : 3L-N 4 wires (three phase)	
Nominal voltage	220/230/240Vac, optional 380/400/415Vac	
Input voltage range	120-276Vac (1/1), optional 208-478Vac (3/1)	
Frequency range	45-55Hz for 50Hz, 55-65Hz for 60Hz (auto-sensing)	
Power factor	>0.99	
Harmonic distortion (THDi)	≤ 3 % at 100% non-linear load	
Bypass voltage range	+25% (+10%, +20% - option), -45% (-20%, -30% - option), frequency range : +/-10%	
— Output		
Output connection	2 x IEC-C13	
Voltage	208/220/230/240VAC	
Type of wave	Pure sine wave	
Harmonic distortion (THD)	≤ 2% linear load; ≤ 5% non-linear load	
Frequency	50/60Hz +/-0,1Hz	
Voltage regulation	+/-1% at nominal load	
Crest factor	3:1	
Efficiency at 75-100% load	>92% (AC mode) / >94% (battery mode) / >97% (ECO mode)	
— Battery (external)		
Voltage	16/18/20pcs 12V - only external batteries (modules)	
Charging current	1-10A adjustable	
Parallel systems	Common or separate battery possible	
— Protection		
Input/output	Overvoltage, short-circuit, battery deep discharge, thermal protection	
Overload capability (AC mode)	Load ≤110% : 3min, ≤125% : 30sec, ≤150% : 1sec, >150 : switching to bypass	
Overload capability (battery mode)	Load ≤110% : 30sec, ≤125% : 1sec, ≤150% : 200ms, >150 : shutdown of the UPS	
Overload capability (bypass)	Input fuse 40A	Input fuse 63A
— Alarms - informations		
Audible	Battery backup, battery low, overload, short-circuit, fault and error code	
LED	AC, battery, bypass, working modes, overload, error	
LCD	Voltage / frequency, load %, battery voltage, temperature, remaining backup time	
Audible noise at 1m	<55dB	
— Bypass		
Type	Internal static bypass / external maintenance bypass (option)	
— Certificates		
EMC protection	CE, EN/IEC 62040-2, EN/IEC 62040-1-1	
Protection class	IP20 (up to IP55 on option)	
— Interface		
Standard	USB, parallel port, EPO, RS232, intelligent slot	
Options	SNMP, relay card	
— Dimensions		
UPS, WxDxH, mm	440x580x130mm (3U)	
Weight of the UPS	23kg	25kg
— External battery modules		
Battery	16/18/20 pcs per 12V/9Ah	
Dimensions WxDxH and weight	440x720x132mm (3U) / 67kg	
Connections input/output/battery modules	Terminals	

Spirit II

6/10kVA (1/1), (3/1) optional



Applications



Estimated Remaining Time (LCD)



The LCD display shows an estimation of the remaining battery backup time.

Specifications



- On-line “double conversion” technology (VFI)
- DSP (Digital Signal Processor) technology
- Internal static and manual bypass breaker
- Input Power Factor up to 0.99
- Wide input voltage range
- Up to 4 units in parallel
- Battery (DC) cold start
- Common or separate battery in parallel mode
- Charging current 1-10A
- Selectable battery voltage (16/18/20 batteries)
- ECO-mode for energy saving
- Site wiring fault indication
- Self testing at UPS startup
- Intelligent management through RS485, USB, DB9
- Backfeed protection

Options:

- SNMP adapter
- Relay card (dry contacts)
- Additional / external battery packs
- Spirit II 6/10kVA version (3/1)
- 2 years warranty

Parallel Redundancy Mode

Up to 4 Spirit II systems can be connected in parallel to get maximum power capacity. Only one battery is necessary in the parallel redundancy mode.

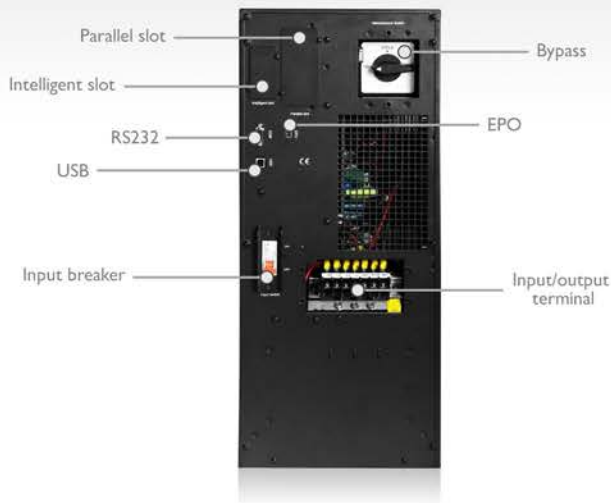
Additional battery pack open view



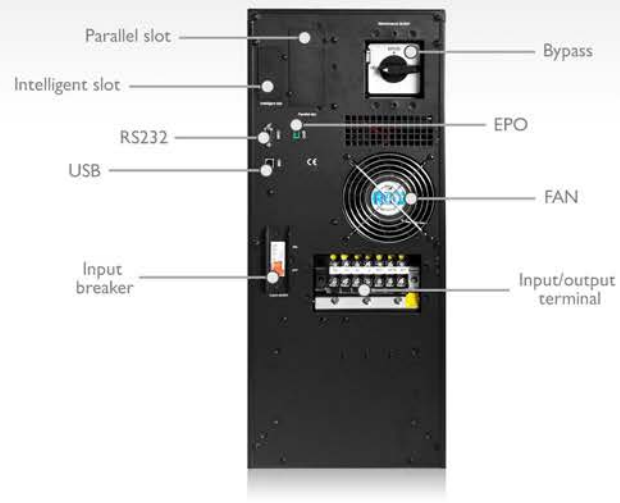
Common battery in parallel mode

Up to 4 units in parallel

Spirit II 6kVA



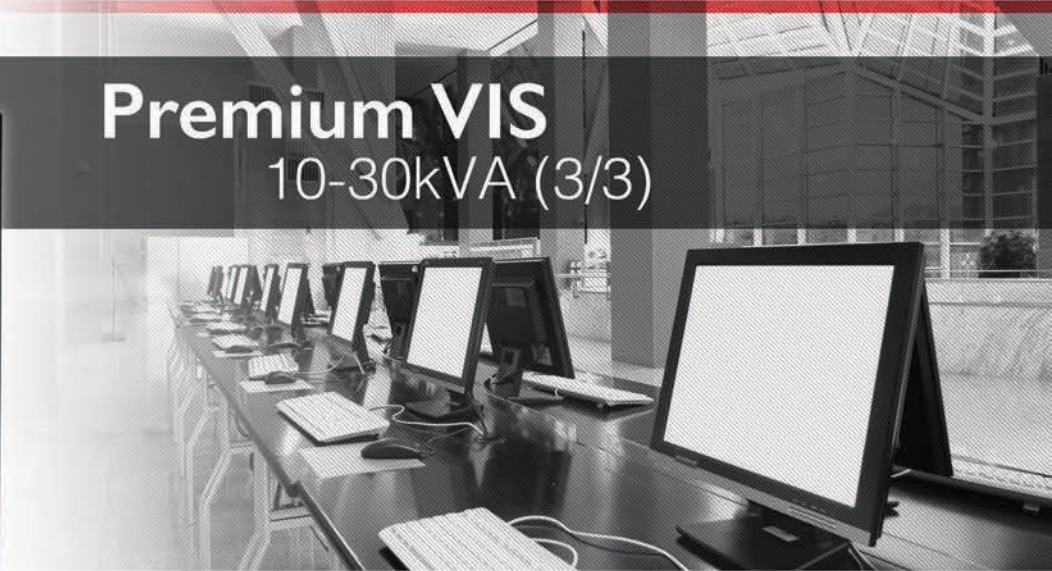
Spirit II 10kVA



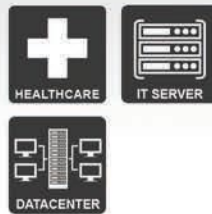
Spirit II	Model	
	6000VA	10000VA
Power (Watt)	5400W	9000W
— Input		
Nominal voltage	220/230/240Vac, optional 380/400/415Vac selectable	
Input voltage range	120-276Vac (1/1), 208-478Vac (3/1)	
Frequency range	45-55Hz for 50Hz, 55-65Hz for 60Hz (auto-sensing)	
Input power factor	≥0.99	
Bypass voltage range	-45% / +15%	
Harmonic distortion (THDi)	≤5% at 100% non-linear load	
— Output		
Voltage	208/220/230/240Vac selectable	
Waveform	Pure sine wave	
Harmonic distortion (THD)	<2% at 100% linear load	
Frequency	50/60Hz +/- 0,2%	
Voltage regulation	+/-2% at nominal voltage	
Crest factor	3:1	
Efficiency at 75-100% load	>92% (AC mode) / >95% (battery mode) / >97% (ECO mode)	
— Battery (internal)		
Type	VRLA, AGM	
Voltage	240Vdc (selectable 192/210/240Vdc)	
Standard backup time (internal battery)	6-8min at nominal load	3-5min at nominal load
Power of the internal charger	1-10A adjustable	
— Protection		
Input/output	Overvoltage, short-circuit, battery deep discharge, thermal protection	
Overload capacity AC Mode/Battery Mode	≤110% load 3min/30sec, ≤125% load 30sec/3sec, ≤150% load 1sec/200ms	
— Alarms - informations		
Audible	Battery backup, battery low, overload status, fault status	
LED	Mains, inverter, bypass, fault, battery level	
LCD	Input and output voltage, load, battery voltage, error codes	
— Bypass		
Type	Internal static (automatic) and manual bypass / External bypass optional	
— Environment		
Temperature / altitude / humidity	0-40°C / less than 1500m / 0-95% non-condensing	
Audible noise at 1m	< 50dB	
— Interface		
Standard	USB, RS232, EPO	
Optional	SNMP card, parallel card, relay card	
— Dimensions		
Weight (with internal batteries)	70kg	80kg
WxDxH (mm)	250x510x620 (UPS), 250x600x620 (Battery cabinet)	
Standard	CE-certificate, EN/IEC 62040-2, EN/IEC 62040-1, GOST	

Premium VIS

10-30kVA (3/3)



Applications



Price-Performance Ratio

The Premium VIS series is our best "price-performance ratio" 3/3 phase UPS. Based on our modular UPS technology, we are able to offer extremely small UPS 10-30kVA solutions. A combination of our modular based UPS with a special DC/DC converter, the Premium VIS UPS can work with a battery voltage of only 192 to 240Vdc (adjustable). It allows to reduce space, batteries and price.

Specifications



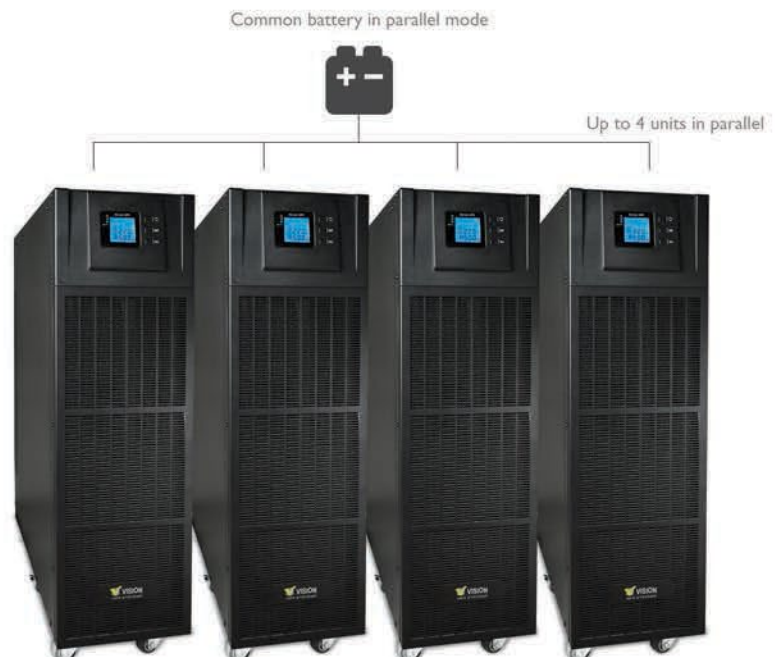
- On-line "double conversion" technology (VFI)
- Parallel redundancy On-line UPS (up to 4 units)
- Input power factor up to 0,99 (PFC technology)
- DSP (Digital Signal Processor) technology
- Common battery string for parallel units
- IGBT technology (rectifier and inverter)
- Internal static and manual bypass
- 16/18/20pcs 12V batteries per string (adjustable)
- ECO-mode for energy-saving
- Intelligent charging management
- Self-test during UPS startup
- Internal and external batteries
- Unbalanced load acceptable
- Wide input voltage range
- Battery (DC) cold start
- LCD-LED double display with audible/visible alarms
- RS485 and USB ports, dry contacts
- EPO (Emergency Power Off)
- Backfeed protection
- 2 years warranty

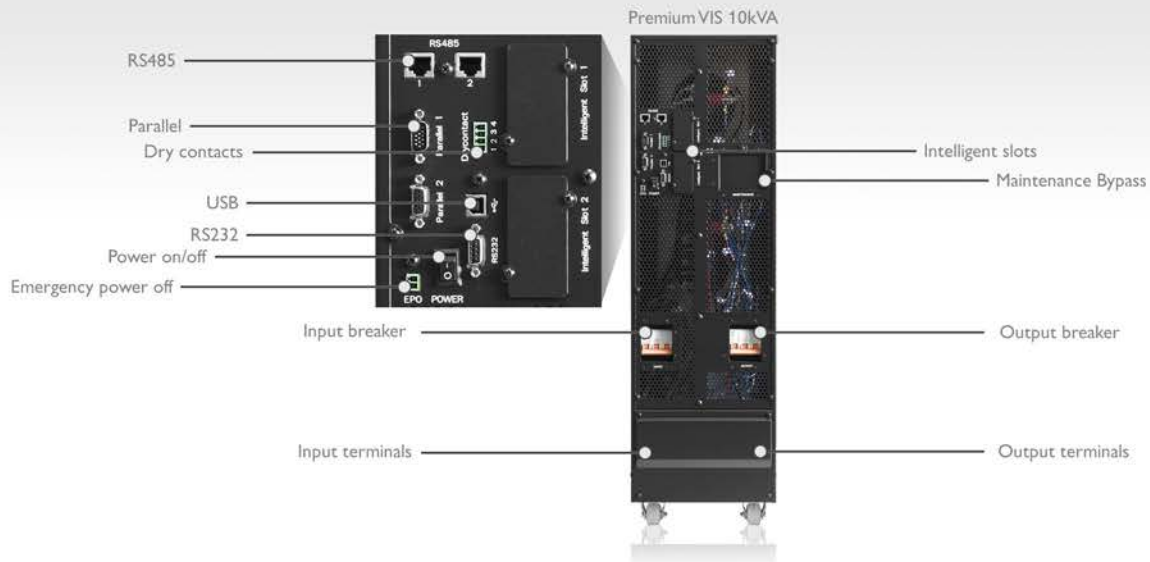
Options:

- SNMP card
- Relay card
- External maintenance bypass

Parallel Redundancy Mode

Up to 4 Premium VIS systems can be connected in parallel to get maximum power capacity. Only one battery is necessary with the parallel redundancy mode.





Premium VIS	Model			
	10kVA	15kVA	20kVA	30kVA
Power (kW)	9	13,5	18	27
— Input				
Nominal voltage	380/400/415Vac (3ph+N+PE)			
Maximum voltage	208-478Vac			
Frequency range	45-55Hz for 50Hz, 55-65Hz for 60Hz (auto-sensing)			
Input power factor	0.99			
Harmonic distortion (THDi)	<3% (at 100% non-linear load)			
Bypass voltage range	-45%, +15%			
Bypass frequency range	+/-10%			
— Output				
Voltage regulation	380/400/415V +/-1% at nominal load			
Harmonic distortion (THD)	<2% linear load, <5% non-linear load			
Frequency	50/60Hz +/-0,1Hz			
Crest factor	3:1			
Efficiency at 75-100% load	93% (AC mode) / 94% (battery mode) / 97% (ECO mode)			
Bypass	Internal static (automatic) and manual bypass / External bypass optional			
Transfer time	Mains to battery : 0msec, mains to bypass : 0msec			
— Battery				
Voltage	Adjustable (192/216/240Vdc)			
Internal battery VRLA-AGM	20x12V 9Ah	2x20x12V 9Ah	2x20x12V 9Ah	3x20x12V 9Ah
Charging current (extendable)	1,35A	2,7A	2,7A	10A
— Protection				
Input / output	Overvoltage, short-circuit, battery deep discharge, thermal protection			
Overload	≤110% : 60min, ≤125% : 10min, ≤150% : 1min, >150 : switch to bypass mode			
— Alarms - information				
Audible alarm	Line failure, battery low, bypass-overload status, fault status			
LED	Line-/backup-/ECO-/bypass-mode, battery low/bad/disconnected, overload, fault			
LCD	Voltage/frequency, load %, battery voltage/runtime			
— Standard				
Safety	IEC/EN62040-1, IEC/EN60950-1			
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-8			
Protection class	IP20			
— Environment				
Temperature / humidity	0-40°C / 0-95% (non-condensing)			
Audible noise at 1m	< 55dB	< 58dB		< 58dB
— Interface				
Standard	USB, dry contacts, intelligent slot, parallel port RS485, RS232, EPO			
Optional	SNMP card, relay card			
— Dimensions				
Weight (without batteries)	42kg	45kg	67kg	
WxDxH, mm	250x828x868			

Premium +33

10-300kVA (3/3)



Applications



Different Size and Power levels



Specifications

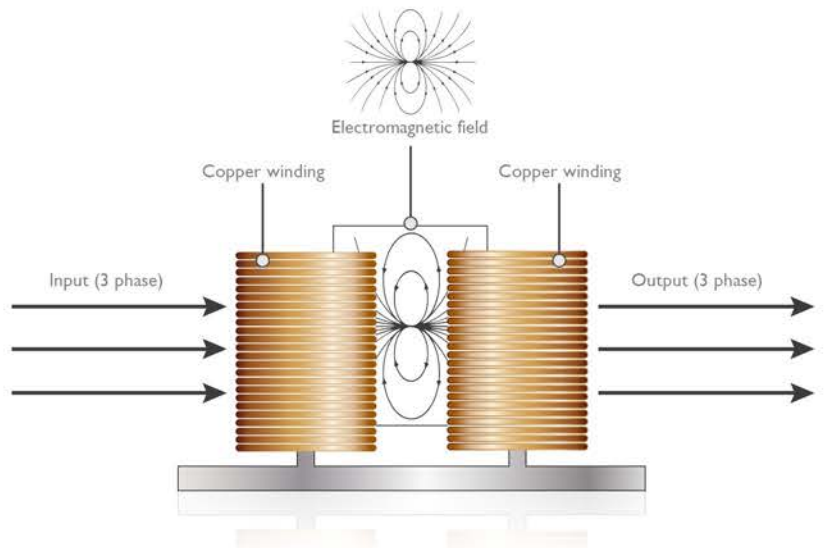
- On-line “double conversion” technology (VFI)
- Galvanic isolation transformer
- LCD-LED display
- IGBT technology (inverter)
- Optional battery runtime
- Inductive load acceptable
- Wide input voltage range
- Parallel redundancy (optional)
- Internal static and manual bypass
- Self testing at UPS startup
- 128 events alarm memory
- Intelligent management via RS232
- EPO (Emergency Power Off)
- Relay card (dry contacts)
- Software and USB cable included
- Backfeed protection from 60 to 300kVA

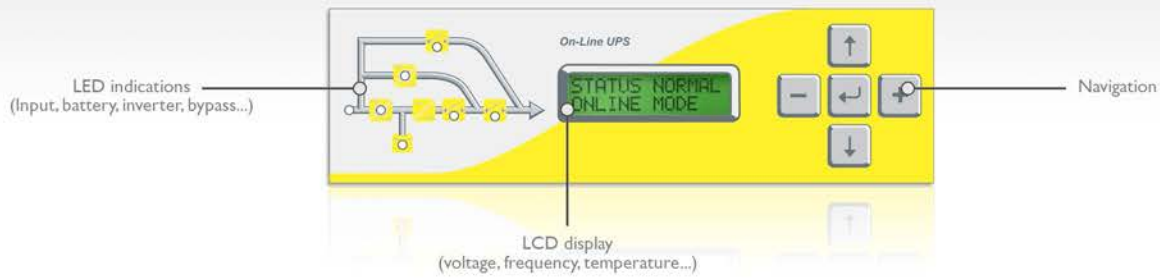
Options:

- SNMP / AS400 card
- External maintenance bypass
- 2 years warranty

Galvanic Isolation Transformer

This high-quality online UPS from Vision is provided with a galvanic isolation transformer, which means that the electric circuits before and after the UPS are not connected physically, but via an electromagnetic field. This increases the reliability of the protection essentially. Spikes and disturbances can not pass the magnetic field of the galvanic isolation transformer.





Premium +33	Model													
	PRP10	PRP15	PRP20	PRP30	PRP40	PRP60	PRP80	PRP100	PRP120	PRP160	PRP200	PRP250	PRP300	
Power (kVA)	10	15	20	30	40	60	80	100	120	160	200	250	300	
— Input														
Voltage	380/400Vac 3phase +N, +/-15%													
Internal bypass	380 to 400Vac 3phase, +/-12%													
Input frequency	50Hz (60Hz on request), +/-5%													
— Output														
Power (kW)	8	12	16	24	32	48	64	80	96	128	160	200	240	
Power factor	0,8													
Voltage	380/400Vac 3phase +N													
Voltage regulation	Balanced load: +/-1%, unbalanced load: +/-2%, step load: +/-5%													
Recovery time (voltage)	< 25ms (load step 0-100%)													
Frequency	50Hz (60Hz optional)													
Frequency regulation	Line synchronized: +/-2%, free running: +/-0,2%													
Efficiency at 100% load	90-91%			90-93%										
Crest factor	3:1													
Overload protection	10min: 100% to 125%, 1min: 125% to 150%, bypass: more than 150%													
Short circuit protected	electronic													
Total harmonic distortion (THD)	Linear load: <3%, non-linear load: <5%													
— Batteries (external)														
Type	AGM/Gel - maintenance free													
Number of batteries	30 x 12V											32 x 12V		
Ambient temperature	25°C													
Battery protection	Circuit breaker													
Battery test	Automatic and selectable interval time													
— General														
Regulations	EN62040-2													
Serial communication	Dry contacts & RS232													
Communication	UPS management software included													
Temperature range	0-40°C													
Ventilation	Forced air cooling													
Relative humidity	<90% (non-condensed)													
Protection degree	IP20													
Altitude	<1000m above sea level													
Audible noise at 1m	< 56dB			< 60dB			< 65dB			< 70dB				
Weight without batteries (kg)	225	255	265	295	410	460	590	795	895	1125	1155	1595	1775	
Dimensions (mm), HxWxD	1155x505x655				1395x575x820			1455x720x825	1655x1110x810		1735x1195x870		1885x1565x925	
— Options														
Input/output voltage	208/220Vac 3phase													
Transformer	Galvanic isolation transformer at the bypass													
Input harmonic filter	10% with 12 pulse rectifier, 5% with 18 pulse rectifier													
IPF	Up to 0,97 with 18 pulse rectifier													
Communication	SNMP, MODBUS, RS485													
Parallel operation	Up to 4 units													

VisionMod STR 19"

10-80kVA (3/3)



Specifications



- On-line "double conversion" technology (VFI)
- Input power factor up to 0.99
- Output power factor 0.9 (1 optional)
- DSP (Digital Signal Processor) technology
- Internal static and manual bypass
- Wide input voltage range (208-478Vac)
- Parallel connection up to 4 units (80kVA)
- Automatic load sharing for all units in parallel
- Adjustable 6A charger per module
- Genset compatibility
- Various monitoring systems
- For long backup time
- For 19" racks and cabinets
- Adjustable battery voltage from 384-480Vdc (32 to 40 batteries 12Vdc)
- Common or separate batteries
- Backfeed protection
- RS232/RS485
- EPO (Emergency Power Off)

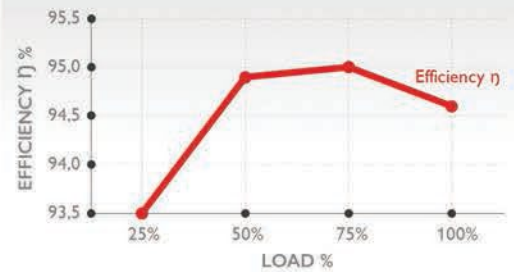
Options:

- SNMP card
 - External maintenance bypass
 - Relay / AS400 card
 - Modbus interface
- 2 years warranty

Applications



Efficiency



Modules for 19" Racks & Cabinets

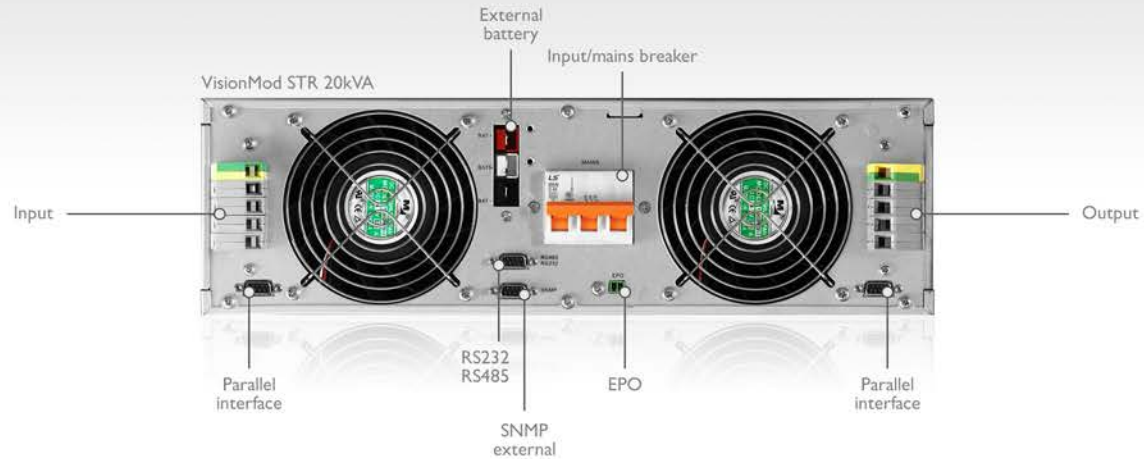
Each power module is an independent UPS with rectifier, inverter and bypass. To be placed in a standard 19" cabinet.



Up to 4 units in parallel



Common battery in parallel mode (hot swap)



VisionMod STR	Model	
Nominal capacity / Power per module	10kVA/9kW and 20kVA/18kW (optional 20kVA/20kW)	
— Input		
Rated voltage	380/400/415Vac	
Voltage range	208-478Vac	
Frequency range	45-55Hz for 50Hz, 55-65Hz for 60Hz (auto-sensing)	
Input power factor	> 0.99	
Harmonic distortion (THDi)	<3% (at 100% non-linear load)	
— Output		
Voltage	380/400/415Vac +/-2% at nominal voltage	
Frequency	50/60Hz +/-0,2%	
Harmonic distortion (THD)	<2% (linear load) / <5% (non-linear load)	
Crest factor	3:1	
Efficiency at 75-100% load	ECO mode >98% / AC mode up to 95%	
— Battery (external)		
Type	VRLA / AGM / Gel / OPZv	
Voltage	384-480Vdc (32-40 batteries)	
Maximum charging current	6A per module (adjustable)	
Backup time	According battery module or external battery cabinet for long backup	
— Protection		
Input/output	Overvoltage, short-circuit, battery deep discharge, thermal protection	
Overload AC-Mode	≤110% - 60min / ≤125% - 10min / ≤150% - 1min	
Overload battery mode	≤110% - 30sec / ≤125% - 1sec / ≤150% - 200msec	
Overload bypass mode	Input breaker 40A	
— Alarms - informations		
Audible	Line failure, battery low, bypass - overload status, fault status	
LED	Line-/backup-/ECO-/bypass-mode, battery low/bad/disconnected, overload, fault	
LCD	Voltage/frequency, load %, battery voltage/runtime	
— Bypass		
Type	Internal static (automatic) bypass / External bypass optional	
Bypass voltage range	+15%(optional +5/10/25%)-45%(optional -20/30%)/Frequency range: ± 10%	
— Standards		
Certificates	CE, EN62040-1-1 (ESD), EN62040-2 (EMI)	
Protection class	IP20	
— Environment		
Temperature	0-40°C	
Humidity / Altitude	0-95% non-condensing / < 1500m	
Audible noise at 1m	< 60dB	
— Interface		
Power module	RS232 / RS485 / EPO / Parallel port	
Optional	SNMP / Relay card	
— Dimensions of the module		
Dimensions WxDxH	Power module 443x580x131mm (3U)	Battery module 443x580x131mm (3U)
Weight	31kg	Empty : 15kg, 3 shelves hot swap 23kg/shelve

Marathon 3/3

20kVA/18kW (3/3)



Applications



Backup Table Time

	Load in Watt				
	4KW	6KW	8KW	12KW	16KW
BP3626	120min	60min	45min	25min	20min
BP3645	180min	120min	90min	45min	30min

Backup time in minutes



MARATHON



Specifications

- On-line "double conversion" technology (VFI)
- Input power factor up to 0.99
- Output power factor 0.9 (1 optional)
- DSP (Digital Signal Processor) technology
- Internal static and manual bypass
- Wide input voltage range (208-478Vac)
- Parallel connection up to 4 units (80kVA)
- Automatic load sharing for all units in parallel
- Adjustable 6A charger per module
- Genset compatibility
- Various monitoring systems
- For long backup time (45min/100%, 100min/50%)
- Adjustable battery voltage from 384-480Vdc (32 to 40 batteries 12Vdc)
- Common or separate batteries
- RS232/RS485
- EPO (Emergency Power Off)
- Backfeed protection
- 2 years warranty
- Options:
 - SNMP card
 - External maintenance bypass
 - Relay / AS400 card
 - Modbus interface

20kVA/18kW power module
(up to 4 cabinets in parallel)

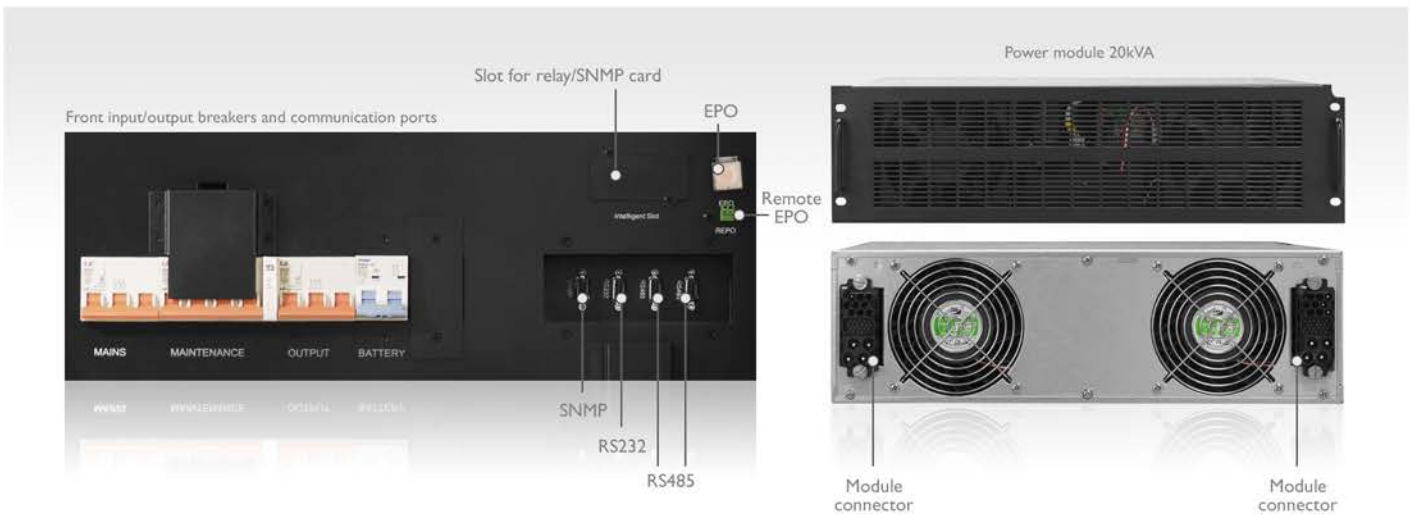


Open side view with available space for batteries



Open front view





Marathon 3/3	
Nominal capacity (kVA) / Power (Watt)	20kVA / 18kW
— Input	
Voltage	380/400/415Vac
Voltage range	208-478Vac
Frequency range	45-55Hz for 50Hz, 55-65Hz for 60Hz (auto-sensing)
Input power factor	> 0.99
Harmonic distortion (THDi)	2% (at 100% non-linear load)
— Output	
Voltage regulation	380/400/415Vac +/-2% at nominal voltage
Frequency	50/60Hz +/-0,2%
Harmonic distortion (THD)	<2% (linear load) / <5% (non-linear load)
Crest factor	3:1
Efficiency	ECO mode >98% / Normal mode up to 95%
— Battery (internal)	
Type	VRLA, AGM, Gel, OPZv
Voltage	Battery quantity : 384-480Vdc (32-40 batteries)
Maximum charging current	6A per module (adjustable)
Backup time	According batteries (check table page 38)
— Protection	
Input/output	Overvoltage, short-circuit, battery deep discharge, thermal protection
Overload AC-Mode	≤110% - 60min / ≤125% - 10min / ≤150% - 1min
Overload battery mode	≤110% - 30sec / ≤125% - 1sec / ≤150% - 200msec
Overload bypass mode	Input breaker 40A
— Alarms - informations	
Audible	Line failure, battery low, bypass - overload status, fault status
LED	Line-/backup-/ECO-/bypass-mode, battery low/bad/disconnected, overload, fault
LCD	Voltage / frequency, load %, battery voltage, temperature, error code
— Bypass	
Type	Internal static (automatic) and manual bypass / External bypass optional
Bypass voltage range	+25%(optional +10/15/20%) / -45%(optional -20/30%) / Frequency range: ±10%
— Standards	
Certificates	CE, EN62040-1-1 (ESD), EN62040-2 (EMI)
Protection class	IP20
— Environment	
Temperature	0-40°C
Humidity / Altitude	0-95% non-condensing / <1500m
Audible noise at 1m	<55dB
— Interface	
Cabinet	RS232 / RS485 / EPO / REPO
Optional	SNMP / Relay card
— Dimensions	
Dimensions WxDxH	Power module 443x580x131mm (3U) Cabinet with module (without batteries) 600x780x1200mm
Weight	Power module 31kg Cabinet with module (without batteries) 127kg

VisionMod Modular Series

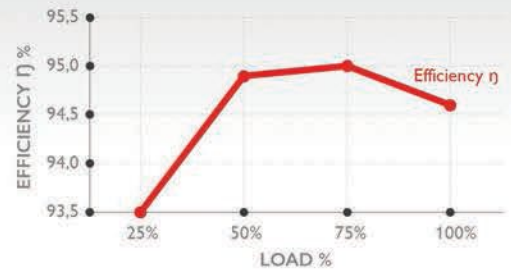
6-50kVA (1/1) (3/1) & 20-800kVA (3/3)



Applications



Efficiency



Specifications



- On-line "double conversion" technology (VFI)
- Input power factor up to 0.99
- Output power factor 0.9 (1 optional)
- DSP (Digital Signal Processor) technology
- Internal static and manual bypass in each module (no centralized bypass required)
- Hot swappable power and battery modules
- Wide input voltage range (208-478Vac)(3/3)
- Adjustable battery voltage (384-480Vdc)(3/3)
- Only one battery string for N+1 application
- 6A charging current per module
- Adjustable charging current
- Automatic load sharing
- Genset compatibility
- Big touchscreen LCD display
- Various monitoring systems
- Additional bypass input
- Small footprint and very silent
- RS232/RS485 interface
- EPO (Emergency Power Off)
- Backfeed protection
- 2 years warranty
- Options:
 - SNMP card / relay card (dry contacts)

Graphical LCD/LED display



Hot swappable module



Battery module (hot swap)

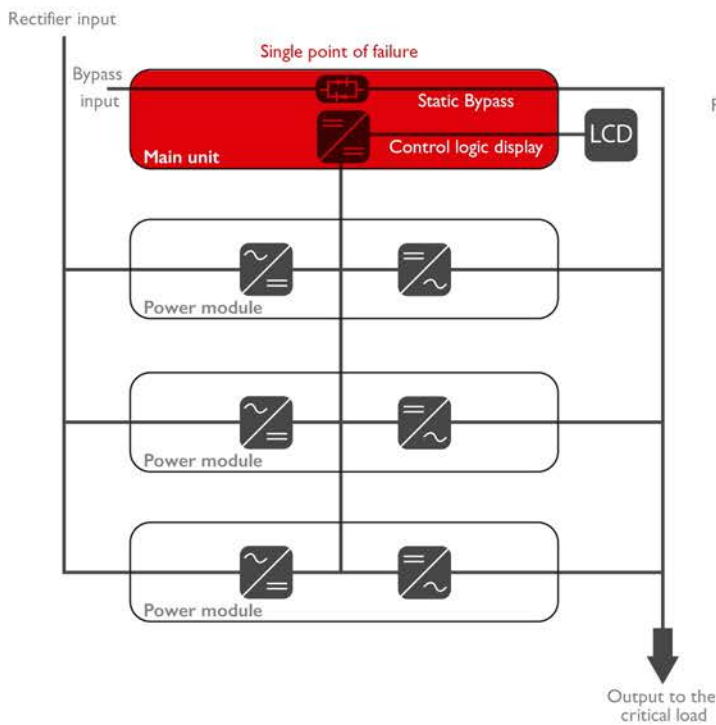


VisionMod Modular Series

Decentralized Modular Technology

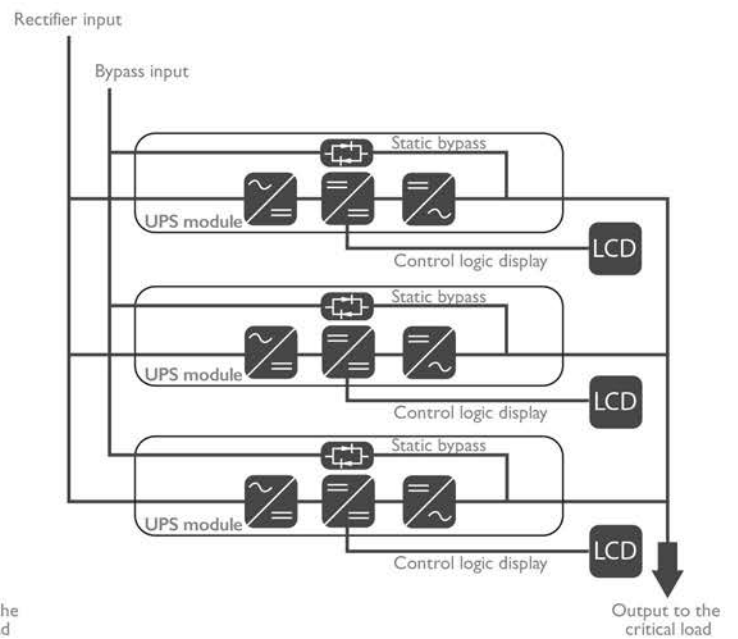
Vision Modular UPS with multiplied components also called decentralized technology is the only possibility to work without the risk of a "single point of failure". Each UPS module has all, - rectifier, inverter, static bypass switch, back-feed protection, battery fuse and control logic LCD display - to garranty autonomous operation.

Centralized UPS with common components



Decentralized UPS with multiplied components

Example : VisionMod with 3x20kVA

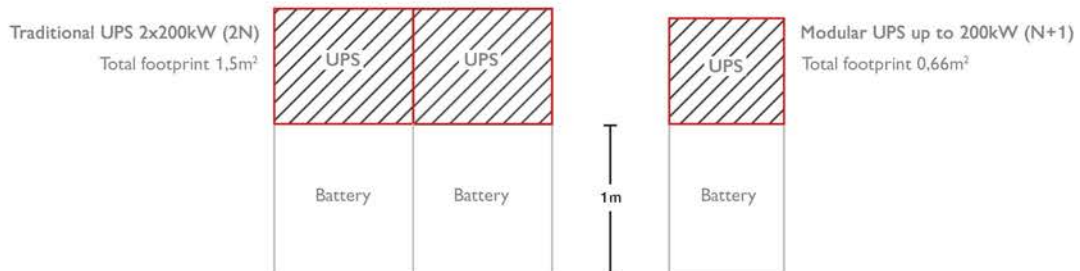


Single point of failure. One single static bypass and/or control logic can result in a total system blackout

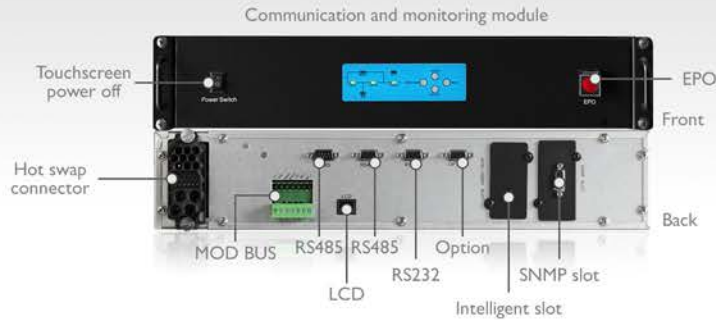
No single point of failure. All components/parts are multiplied by the number X of used power modules

Reduce installation and maintenance costs

- The modular UPS reduces space requirements (in our example, 55% of space is saved)



- The maintenance and service parts costs are easy to calculate and extremely transparent: only one module !



Vision Mod	Model	
	1/1 - 3/1 phase	3/3 phase
Nominal capacity / Power per module	6kVA/4,8kW - 10kVA/8kW	20kVA/18kW (optional 20kVA/20kW)
— Input		
Voltage	220/230Vac or 380/400Vac	380/400/415Vac
Voltage range	120-276Vac (1/1) or 208-478Vac (3/1)	208-478Vac
Frequency range	45-55Hz for 50Hz, 55-65Hz for 60Hz (auto-sensing)	
Input power factor	> 0.99	
Harmonic distortion (THDi)	<5% (at 100% non-linear load)	<3% (at 100% non-linear load)
— Output		
Voltage regulation	220/230Vac +/-2% at nominal voltage	380/400/415Vac +/-2% at nominal voltage
Frequency	50/60Hz +/- 0,2%	
Harmonic distortion (THD)	<2% (linear load) / <5% (non-linear load)	
Crest factor	3:1	
Efficiency	ECO mode >98% / Normal mode up to 95%	
— Battery		
Type	VRLA, AGM, Gel, OPZv	
Voltage	142-240V (16-20 batteries 12Vdc)	384-480V (32-40 batteries 12Vdc)
Maximum charging current	6A per module (can be set according to installed battery capacity)	
Backup time	Internal batteries for short backup time or external battery cabinet for long backup	
— Protection		
Input/output	Overvoltage, short-circuit, battery deep discharge, thermal protection	
Overload AC-Mode	≤110% - 60min / ≤125% - 10min / ≤150% - 1min	
Overload battery mode	≤110% - 30sec / ≤125% - 1sec / ≤150% - 200msec	
Overload bypass mode	Input breaker 40A(6kVA) & 60A(10kVA)	Input breaker 40A
— Alarms - informations		
Audible alarm	Line failure, battery low, bypass - overload status, fault status	
LED	Line-/backup-/ECO-/bypass-mode, battery low/bad/disconnected, overload, fault	
LCD	Big touchscreen display 5" front door + LCD on each power module	
— Bypass		
Type	Internal static (automatic) and manual bypass / External bypass optional	
Bypass voltage range	+15%(optional +5/10/25%) / -45%(optional -20/30%) / Frequency range: ±10%	
— Standards		
Certificates	CE, EN62040-1-1 (ESD), EN62040-2 (EMI)	
Protection class	IP20	
— Environment		
Temperature	0-40°C	
Humidity / Altitude	0-95% non-condensing / <1500m	
Audible noise at 1m	<60dB	
— Interface		
Communication module	RS232 / RS485 / 2 intelligent slots / dry contacts / EPO	
Optional	SNMP / relay card	
— Dimensions of internal module		
Dimensions WxDxH (power & batteries)	443x580x131mm (3U)	
Weight	Power: 31kg, battery : 2x70kg	
— Dimensions & max. power 1/1,3/1		
	for max. 5 modules (30kVA)	for max. 10 modules (50kVA)
Dimensions WxDxH of the cabinet	600x840x1400mm	600x840x2000mm
Weight of the cabinet	150kg	213kg
— Dimensions & max. power 3/3		
	for max. 5 modules (100kVA)	for max. 10 modules (200kVA)
Dimensions WxDxH of the cabinet	600x840x1400mm	600x840x2000mm
Weight of the cabinet	170kg	230kg

Premium DSP0.9 Hybrid

10-500kVA (3/3) 10-30kVA (3/1)

Applications



eco friendly

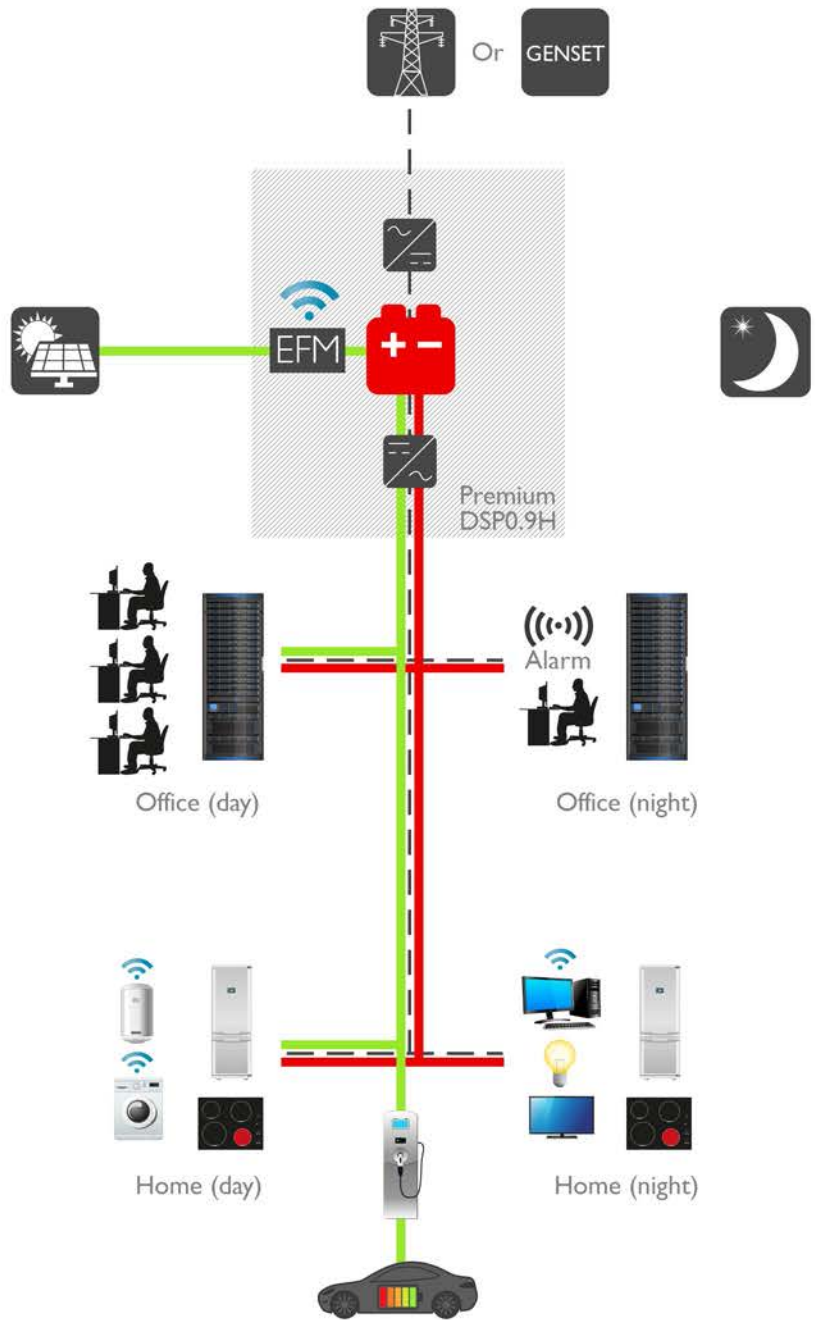
Specifications

- Hybrid function (optional/scalable)
- On-line "double conversion" technology (VFI)
- High efficiency > 94%
- Cold start function
- Output power factor 0,9
- Output short circuit and overload protection
- Emergency power off (EPO)
- Big graphic LCD screen
- Automatic battery test
- High capacity charging current in the battery
- Temperature compensated battery charging
- 512 events memory (more than 46000 alarms)
- 2 serial ports RS232 and dry contacts
- Functionality remote control via Teamviewer
- Split bypass input
- Internal batteries up to 80kVA (6-12kWh)
- Very small footprint
- Up to 8 units in parallel
- Relay contacts (programmable)
- Backfeed protection

Options:

- SNMP card, MODBUS adapters

- 2 years warranty



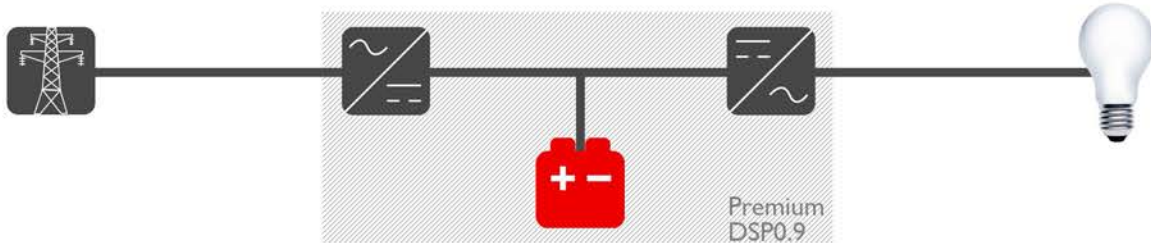
Average energy production - auto consumption (Western & Central Europe)



Premium DSP0.9 Hybrid

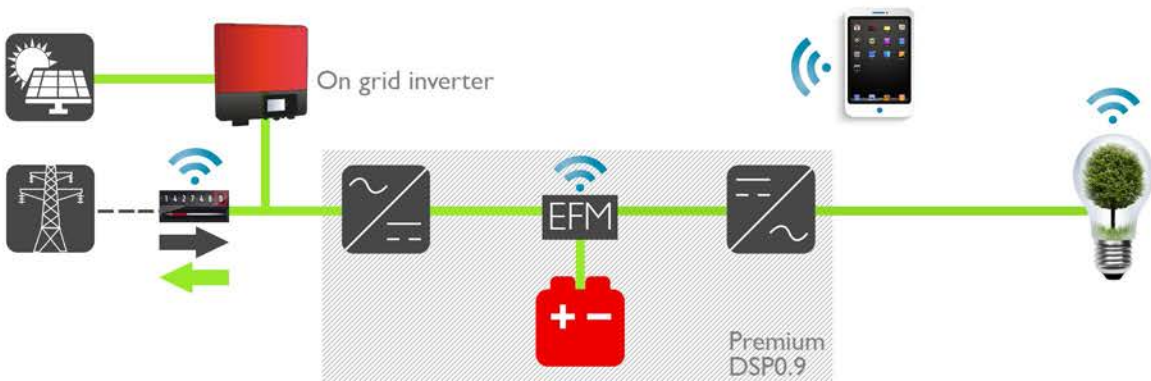
One UPS, multiple choices. The possibilities :

Traditional UPS (DSP0.9)



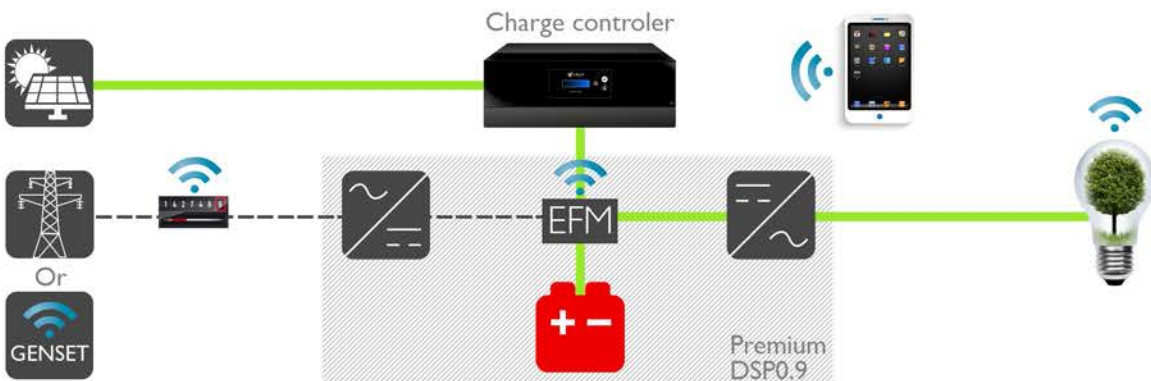
The connected load is powered and protected by our Premium DSP0.9, online double conversion UPS with the latest state-of-the-art technology. The energy provided from the grid or from the batteries in case of a power blackout.

Hybrid UPS (DSP0.9H)+on-grid



The connected load is powered and protected by our Premium DSP0.9H, online double conversion UPS with the latest state-of-the-art technology. In combination with an on-grid inverter and according to actual and future local or country legislation, our Hybrid UPS and the Energy Flow Manager (EFM) will automatically optimize the different energy flows (solar,grid, battery) to minimize your "return of investment" time.

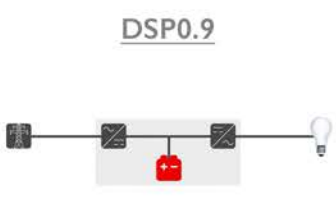



Hybrid UPS (DSP0.9H)+off-grid



The connected load is powered and protected by our Premium DSP0.9H, online double conversion UPS with the latest state-of-the-art technology. The primary energy is produced by the solar panel installation. Our special off-grid charge controller supplies the necessary solar energy to power simultaneously the connected load and to recharge the batteries. The grid and the batteries do only supply the missing energy if solar energy is not available (at night) or not strong enough (according to weather and load conditions). The web based intelligent Energy Flow Manager (EFM) provides "real time" status information. We do continuously optimize the DSP Hybrid and will provide - free - of - charge - updates with new features, such as e.g. energy flow according to local weather forecast, adjustable customer profile and even energy prices ! As such your system is future-proof.

Premium DSP0.9 Hybrid

Advantages

	DSP0.9	DSP0.9H+on-grid	DSP0.9H+off-grid
			
Return of investment	●	✓	✓
Solar energy storage	●	✓	✓
On grid combination	●	✓	●
Scalable Solar + UPS power	●	✓	✓
CO ₂ reduction 	●	✓	✓✓
Computer and data loss protection (Online UPS)	✓	✓	✓
EFM-Energy flow manager	●	✓	✓
Web based remote management compatible	●	✓	✓
	Emergency backup at power failure (0 msec switching time)		
- Supplied by solar	●	●	✓
- Supplied by batteries	✓	✓	✓
	Batteries		
- Internal storage	6-12 kWh (scalable)		
- External storage	6-300 kWh (scalable)		
- Technology	Off-the-shelf, user friendly. Lead acid AGM, Gel, OPzV/S		
- Security level	Proven long term reliability in UPS applications		
- Cycle use	Up to 2500 cycles at depth of discharge 50%		
- Recyclate rate	More than 97%		
- Lithium ion	Optional (lower safety level)		
- Lifetime	3-20 years (according to technology, usage and manufacturer)		
	Installation		
- No consumer load restriction	✓	✓	✓
- 3 phase input/output	✓	✓	✓
- 1 phase input/output	-/✓	-/✓	-/✓
- Genset compatibility	✓	✓	✓
- Retrofittable on existing PV installation	✓	✓	✓

✓ = Yes - = No ● = Optional



Premium DSP0.9 Hybrid	Model															
	DSP10H	DSP15H	DSP20H	DSP30H	DSP40H	DSP60H	DSP80H	DSP100H	DSP120H	DSP160H	DSP200H	DSP250H	DSP300H	DSP400/500H		
Power (kVA)	10	15	20	30	40	60	80	100	120	160	200	250	300	400/500		
— Input																
Voltage	380/400/415Vac 3phase +N, +/-20% (415Vac +15% -25%)															
Frequency range	50/60Hz selectable, +/-10Hz															
Power factor	0,99															
Harmonic distortion (THDi)	<3%															
Additional bypass input	yes															
Bypass voltage range	380/400/415Vac 3phase +N, +/-10%															
Solar charge controller	yes - hybrid function															
— Output																
Power factor	0,9															
Power (kW)	9	13,5	18	27	36	54	72	90	108	144	180	225	270	360/400		
Voltage regulation	380/400/415Vac 3phase +N, +/-1% (220/230/240Vac for 10-30kVA)															
Frequency	50Hz or 60Hz adjustable															
Frequency regulation	line synchronized +/-2%, battery mode +/-0,1% adjustable															
Efficiency	up to 94%															
Crest factor	3:1															
Overload protection	100-125% 10min, 125-150% 60sec															
Additional protection	short circuit, voltage and current range															
Harmonic distortion (THD)	<3% at 100% linear load															
— Battery																
Type	VRLA AGM/GEL or other types															
Nominal voltage	+/-360Vdc (2x30-12Vdc)															
Float or end of discharge DC voltage	+/- 405Vdc, +/-300Vdc															
Battery	internal							external								
Protection	overcharging, battery fuses, temperature compensation															
Automatic test	daily, weekly (adjustable)															
— General																
Standard	EMC/LVD/EMI - EN62040-1/2, EN60950															
User interface	multi language graphical LCD															
LCD information	Phase to phase voltage, phase to neutral voltage/current, power, frequency, crest factor, T°, error code															
Advanced	Auto diagnostics, different maintenance alarms and calibration through RS232															
Communication	2x RS232 ports, 4 dry contact (in option 8 dry contacts)															
Input	Generator contact and emergency power off															
Genset kit	User programmable															
Software	Management software															
Alarm	200 events (time and date) / in option 500 events															
Protection	Over-temperature, over-current, over-temperature alarm															
Temperature range	0°C - 40°C															
Protection degree	IP20 (IP54 optional)															
Humidity / Altitude	90% max without condensation / < 1000m															
Audible noise at 1m	≤ 56dB			≤ 61dB			≤ 64dB			≤ 67dB			≤ 72dB			
Weight (kg)	86	92	98	175	182	196	218	259	480	560	650	770				
Dimensions (mm), HxWxD	1037x398x812					1437x513x852					1797x882x763					1797x1246x763
— Hybrid controller																
Power	5/10 kW (up to 10 units in parallel)															
MPPT Input	270-640Vdc															
Input min/max Voc	200Vdc / 750Vdc															
Efficiency	≥97%															
Communication	RS232, 4 dry contacts, EPO, multi language graphical LCD															
Dimensions HxDxW / weight	3Ux500x440mm/13kg (5kW),17kg (10kW)															

Solar Hybrid

1-20kVA



eco friendly



Applications



4 available power levels

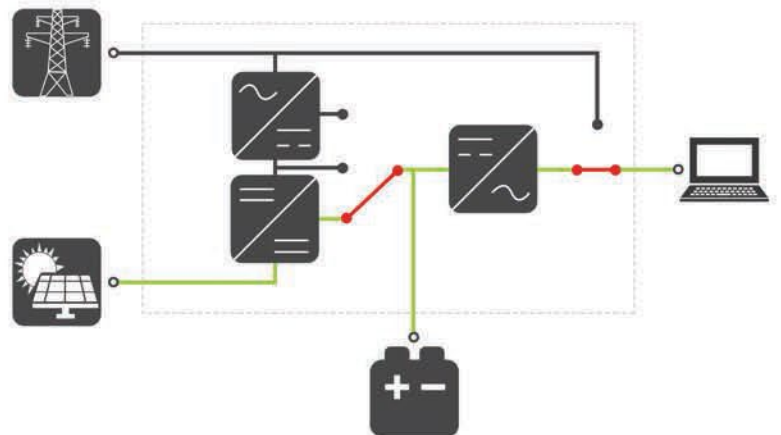


Specifications

- Auto priority logic
- Pure Sine Wave output
- Phase reversal protection
- Auto wakeup & sleep mode
- High efficiency
- For long backup time
- Intelligent charger ensuring more battery life
- 10% more solar energy by using MPPT charger
- Overload, short circuit protection and auto recovery
- Battery (DC) cold start
- Genset compatibility
- 2 years warranty

Vision UPS Hybrid System

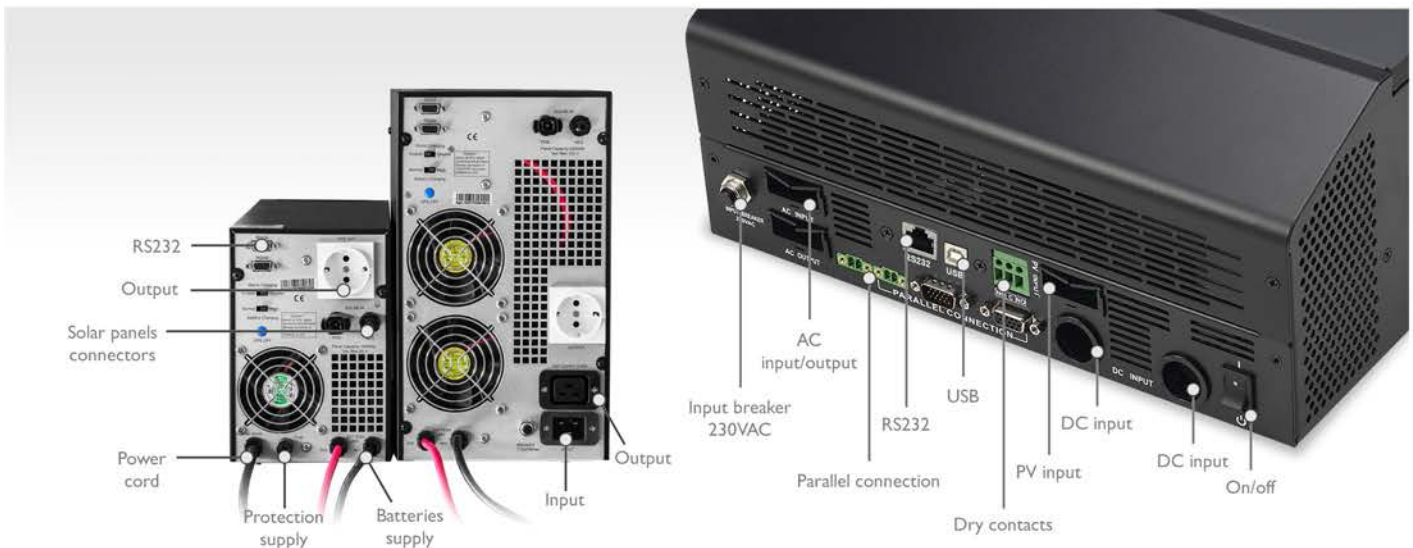
During normal day operation, the connected load is powered by solar energy. If the solar energy is not strong enough, all missing energy is supplied by the batteries. If both energies are not available, the system automatically switches to normal AC supply or genset.



WORKING PRIORITIES



VISION UPS
HYBRID SYSTEM

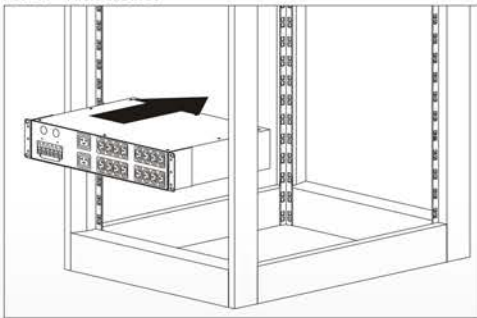


Hybrid solar UPS	Model			
	1000	2000	3000	5000
— Input				
Voltage range	150-275Vac		90-280Vac	
Frequency	50/60Hz (auto-sensing)			
— Output	Pure Sine Wave			
Max. power	1000VA	2000VA	3000VA	5000VA
Max. power AC	1000W	2000W	2400W	4200W
Output voltage	230Vac +/-5			
Harmonic distortion (THDi)	<5%			
Frequency	50/60Hz			
Max. output current	9A	14A	20A	30A
Overload in bypass mode	120% for 180sec / 150% for 3sec			
Overload in battery mode	110% for 60sec / 130% for 30sec			
— Charger				
Max. PV power	1000W	2000W	3000W	3000W
MPPT voltage min/max	24/85Vdc	48/120Vdc	60/120Vdc	
Max. charge current	40A		60A	
Max. efficiency	96%		98%	
— Battery (external)				
Battery voltage	24Vdc	48Vdc		
Max. AC charger	6A		15A	60A
Max discharge current	50A		60A	100A
Battery capacity	24Vdc 200Ah	48Vdc 260Ah	48Vdc 400Ah	48Vdc 400Ah
High voltage alarm	28,4Vdc	57Vdc		
Shutdown voltage	29,2Vdc	58,5Vdc		
Low voltage alarm	22,0Vdc	44Vdc		
Shutdown undervoltage	20,0Vdc	40Vdc		
— Environment				
Protection degree	IP20			
Operating temperature	0-45°C		0-55°C	
Audible noise at 1m	< 50dB		< 55dB	
Relative humidity	0 to 90% non-condensing		5 to 95% non-condensing	
Altitude	0-2000m			
— Communication				
Communication port (optional)	RS232/USB/Relays			
— Physical (UPS)				
Dimensions (WxHxD), mm	144x210x405	190x330x464	145x300x480	145x300x560
Net weight (only Hybrid UPS)	13kg	18kg	13kg	16kg
— Protection				
Input/output	Overvoltage, short-circuit, overload, battery deep discharge			
— Options				
Solar panel kits	4x250Wc	9x250Wc	4-12x250Wc	
Battery kits	24Vdc 170-200Ah	48Vdc 200-260Ah	48Vdc 65-400Ah	
Parallel kits	-		Up to 4 units	

ATS Static Transfer Switch 16A/32A



For 19" rack cabinet



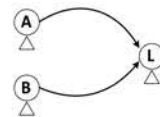
Specifications

- Uninterruptible transfer between 2 independent sources
- Can be powered by 2 different UPS and power sources
- Can be used as external maintenance bypass
- LCD and LED display
- For 19" rack cabinet
- Redundant power supply
- Intelligent communication interface through RS-232, USB and 5 dry contacts
- Flexibility to use
- Input voltage : 200/208/220/230/240Vac (+/-5%/10%/15%/20%)
- Input voltage range : 150Vac~300Vac
- Input frequency : 50/60Hz(+/-5%/10%/15%/20%)
- Input current : 16A or 32A
- Output voltage : 200/208/220/230/240Vac
- Electronic circuit protection
- Transfer time : 8~12ms (typical)
- Efficiency : 99% (with full linear load)
- Standard : EN62310-2
- 2 years warranty

Applications



LCD Display



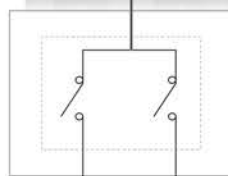
The digital LCD display shows input/output power connected to load

Version 16A (1U)

Front 16A (1U)



Back 16A (1U)

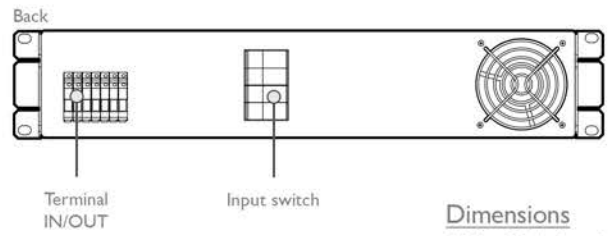
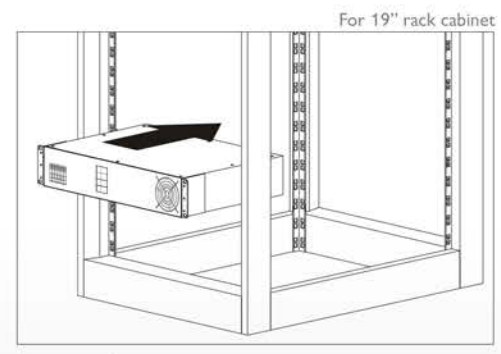
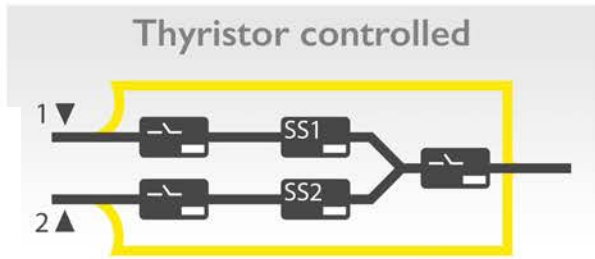
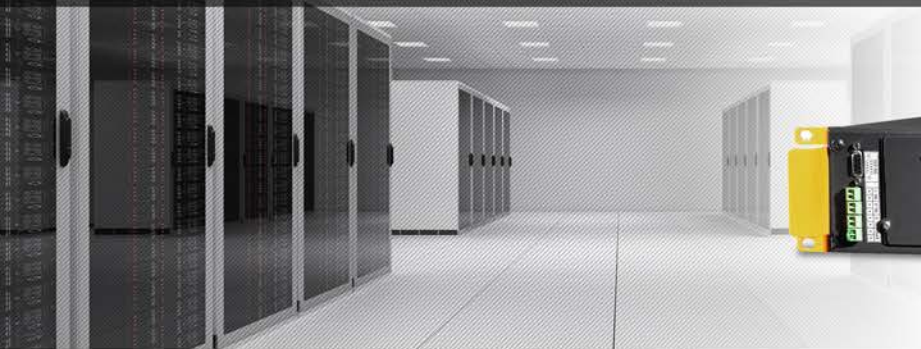


Output 3 Maximum 16A Output 2 Maximum 10A Output 1 Maximum 10A

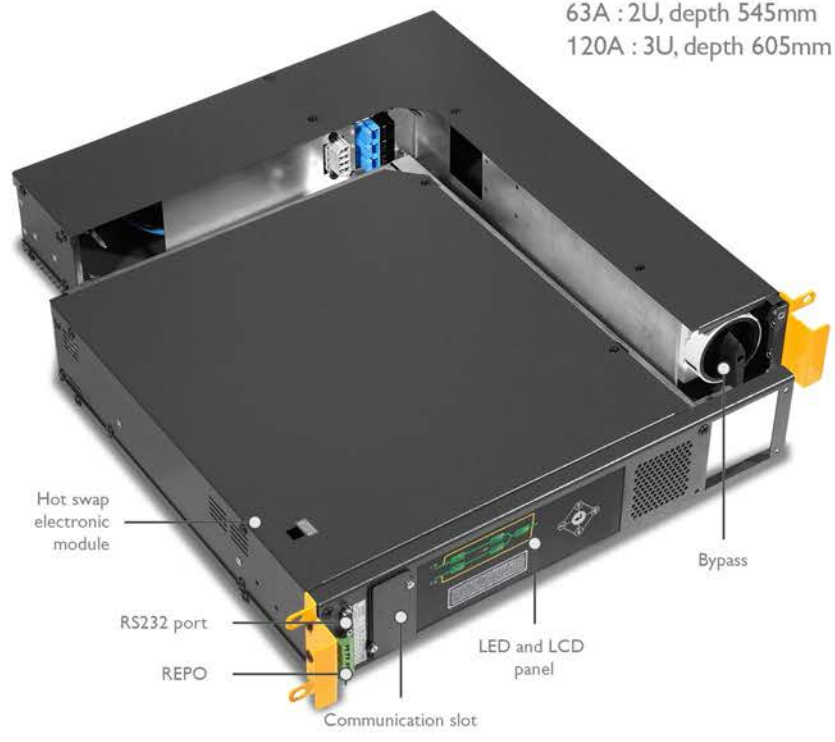
Version 32A (2U)



STS Static Transfer Switch 32A/63A/120A



Dimensions
 63A : 2U, depth 545mm
 120A : 3U, depth 605mm



Specifications

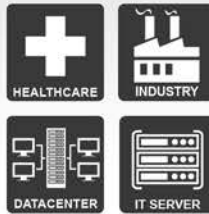
- Uninterruptible transfer between 2 independent sources - Thyristor controlled
- Can be used as external maintenance bypass
- Input voltage : 220/230/240Vac
- Input voltage range : 180/264Vac Ph-N
- Input frequency : 50Hz or 60Hz
- Source priority selection
- Increase power quality
- Microprocessor controller
- Power redundancy
- Internal manual bypass
- Automatic static switch
- Transfer time : $\leq 4ms$ for synchronous sources and $\leq 10ms$ for non-synchronous sources
- RS232 standard and STS NET TCP/IP option
- Current distortion level less than 1%
- Power event log
- For 19" rack cabinet

- Options:**
- Hot swap (electronic module)
 - 2 years warranty

STS Static Transfer Switch 50-600A



Applications



Redundant System

Power is supplied by 2 separate supply circuits that are fully independent and that can be replaced during normal operation (hot replacement mode) without any risk of causing power supply interruptions to the load. In the unlikely event of a failure at one of both power supplies, the full operation is provided by the "Power Supply Backup" function, which offers auxiliary power supply to the circuits from an external, independent power source. The STS is equipped with a redundant ventilation system.

Specifications

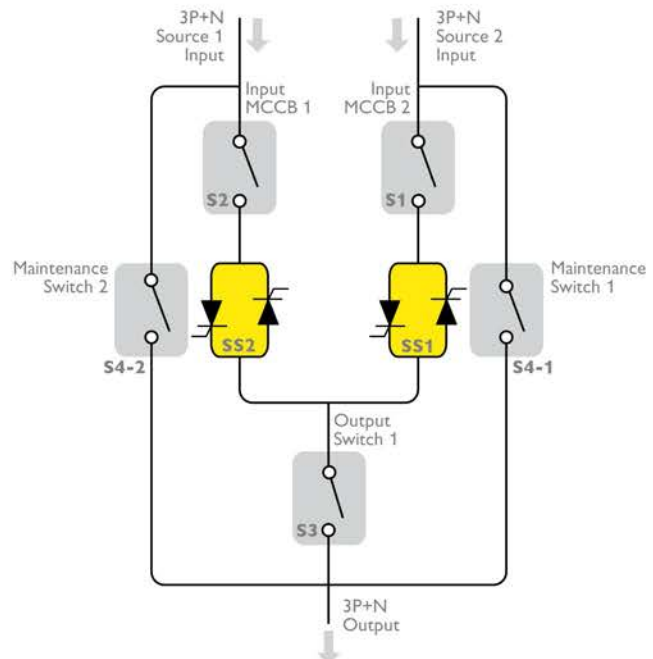
- High reliability
- Increase of the power quality
- Hot swap function (electronic)
- Automatic static switching
- Superior short circuit protection
- Protection against power supply faults
- Protection against overloads and load faults
- Redundant power mode
- Total control by microprocessor
- Advanced communication LCD display such as status, alarms, information...
- Power event log

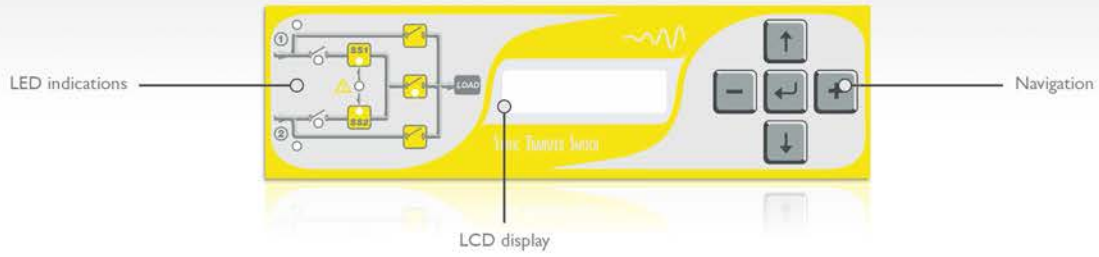
Options:

- RS485
- TCP/IP connection
- 2 serial ports
- 2 years warranty

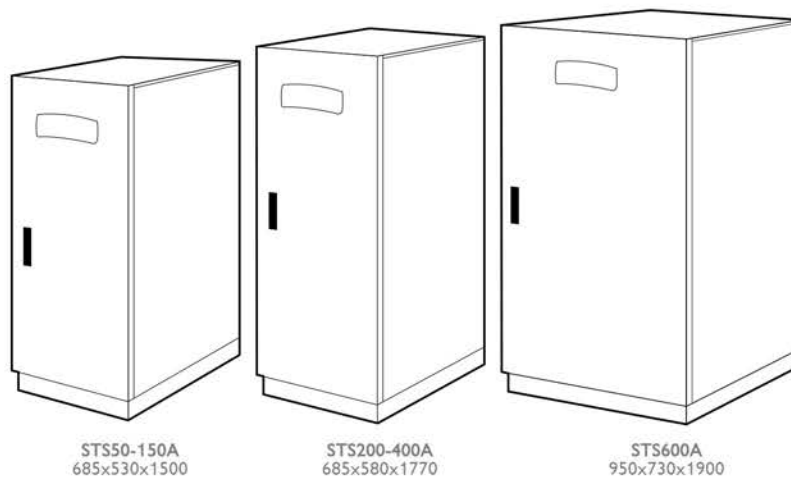
Working Principle

The Vision STS allows the load to switch between alternative and independent power sources for guaranteed redundant power. The switch can be automatic (when a source falls outside the acceptable tolerance) or manually through the front panel control.





3 different sizes



STS	Model							
	STS50	STS100	STS150	STS200	STS250	STS300	STS400	STS600
Nominal current	50A	100A	150A	200A	250A	300A	400A	600A
— Input								
Nominal voltage	380-400-415Vac 3phase + N							
Voltage range	180-264 Vac selectable (Phase to neutral)							
Switched input phases	3ph or 3ph+N							
Frequency	50/60Hz							
Frequency range	+/-10%							
Compatibility	TT, IT, TNC, TNS							
— Electrical								
Transfer type	"break before make" by electronic thyristor							
Available transfer methods	Automatic / manual / remote							
Transfer time	<4ms (S1/S2 synchronised) and 10ms (S1/S2 non-synchronised)							
— Environment & communication								
Efficiency at full load	>99%							
Audible noise at 1m	55dB							57dB
Operating temperature	0°C - 40°C							
Humidity	95% non-condensing							
Altitude	Max 4000m							
Standards	EN62310-1 & EN62310-2							
Interface	RS485, TCP/IP, 2 serial ports							
— Physical								
Weight (kg)	140	155	160	205	210	235	240	375
Dimensions, WxDxH (mm)	685x530x1500			685x580x1770			950x730x1900	
IP	IP20							

Battery Analyzer

For 6/12 Vdc batteries



Application



LCD Display



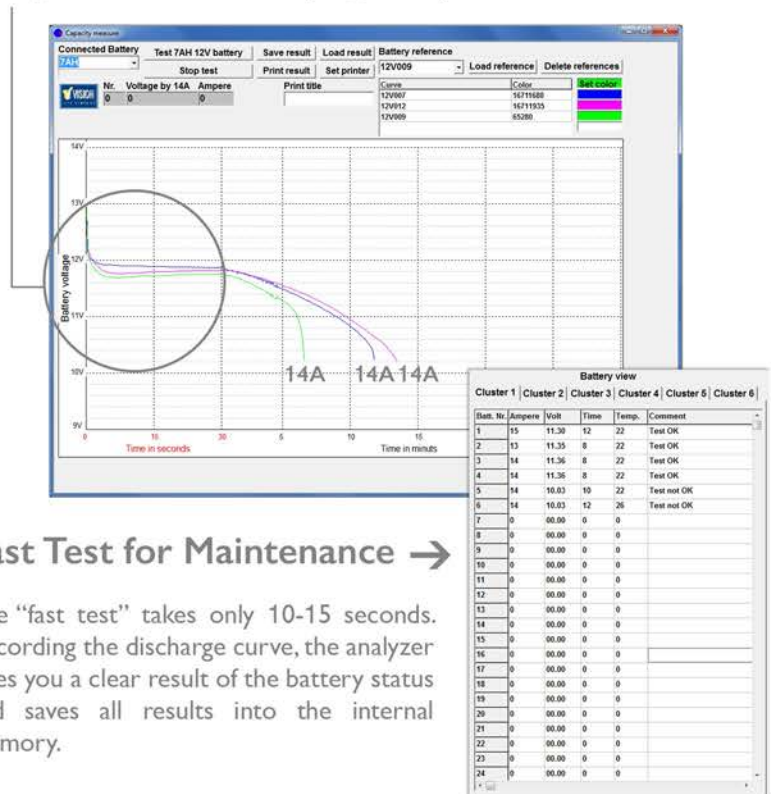
Specifications

- Reliable - quick - portative
- Windows compatible
- Adjustable discharge current from 5-150Amp
- Extremely fast test result (10-15 seconds)
- Large LCD display
- For 6 & 12Vdc batteries
- RS232 communication port
- Possible "hot swapping" test
- Internal memory for 288 datas
- Data transfer to PC (tables, statistics)
- Ideal for maintenance use or long backup test
- Datas export through CSV or TXT files
- 2 years warranty

Monitoring Software Included

The monitoring software supplies all important information about the battery. You can export and print a report or simply save the information in the internal memory of the analyzer.

Long Test for Battery Quality :



Fast Test for Maintenance →

The "fast test" takes only 10-15 seconds. According the discharge curve, the analyzer gives you a clear result of the battery status and saves all results into the internal memory.

Batteries AGM / Gel / OPZv

2V/6V/12V 7-3000Ah



UPS

AGM: 12V7Ah to 12V200Ah



>26Ah lifetime* : 10 years
 <26Ah lifetime* : 5 years

The AGM battery series are designed with advanced technology, super heavy duty grid, high performance plates and electrolyte. The AGM battery series have long and reliable standby life and high consistency for better performance in series use.

UPS

Gel: 12V40Ah to 12V250Ah

SOLAR

HYBRID



Lifetime* : 12 years

The GEL batteries avoid corrosion and stratification. The special separator properly prevents short-circuit. It offers high deep discharge ability, super thermal stability, good recovery ability after deep discharging. The deep discharge cycles of GEL batteries are up to 50% higher compared with other normal AGM batteries.

UPS

SOLAR

HYBRID



OPZv: 2V200Ah to 2V3000Ah

Lifetime* : 15-20 years

The OPZv batteries are designed for long lifetime and have excellent deep cycle performance. The constant power discharge capability and the low current discharge of the OPZv batteries are superior to normal batteries.

Applications

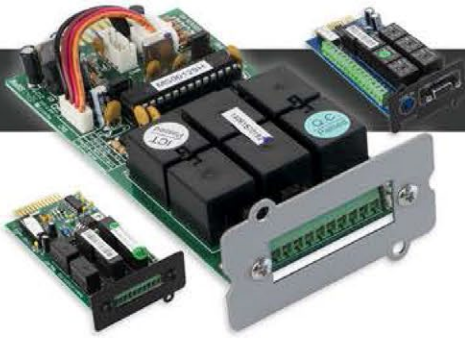
- Auto control system & ATM machine
- Electronic apparatus and equipment
- Emergency light & emergency backup power supply & alarm/Security system
- Power generation system (solar and wind power system, etc.)
- Communication power & DC power
- Electric Power System (EPS)
- Uninterruptible Power System (UPS)

Battery Cabinet

Cabinet available
 up to 60 batteries 12V100Ah



*Lifetime estimated at optimal conditions of use and environment.



Relay card / AS400 / Modbus

Relay cards are based on dry contacts. The AS400 and Modbus card provide the corresponding protocols to the interface.



Web / SNMP adapter / GPRS

SNMP adapters provide monitoring of the UPS via ethernet or WLAN including email notifications. The monitoring software allows connection with the IP address of every UPS. For example all servers in a network can be shutdown. SMS can be sent without LAN connection by using a GSM modem.



Remote control panel

The remote control panel is physically connected with the UPS by cable and allows distant monitoring and management of the system. The panel can be installed as far as 500m from the UPS and will be power supplied by the interface cable.



Galvanic isolation transformer

With the galvanic isolation transformer the electric circuits before and after the UPS are not connected physically but via an electromagnetic field. This increases the reliability of the protection. Spikes and disturbances can not pass the galvanic isolation transformer.



External bypass

External manual bypass modules (singlephase & threephase) allow service and maintenance work without interruption of the power supply. The UPS can be disconnected after the power supply is switched to bypass line. All the Vision STS/ATS range can also be used as external bypass.

Additional chargers

External and internal chargers for batteries of higher capacity and faster charging time.



NetFeeler sensor

They are mostly used in server cabinets for they monitoring. They inform about temperature and humidity over IP adress. The sensors can also be connected to a three port SNMP adapter offered by Vision UPS.



Spike protection

The spike protection protects electrical devices from high voltage. It attempts to limit the voltage supplied to an electric device by either blocking or by shorting to ground any unwanted voltages above a safe threshold.



Customized products



Outdoor UPS /IP65 / IP55

GPRS / IP based remote controller with internal webserver.
Solar + generator power supply for windspeed analyzer.



Rail for 19" rack cabinet

The rail is the perfect tool to fix the UPS or battery pack in a 19" rack cabinet. The additional gliding function ensures a very easy and fast access to the different cabinets.



Monitoring | UPS Management Software



The UPS-Management Software is a client/server application for networks and local workstations. The UPS-Management Software is connected with the UPS by RS-232/485/USB cable. The software collects the messages sent from the UPS as a background software.



If the software detects voltage variations or a power loss, it can execute different system event routines, which for example may shutdown the server or send warnings to connected users. These system event routines, which are part of the UPS-Management Software, are fully customisable. You can program UPS routines (e.g. define dates for automatic UPS tests, shutdown the system at defined dates, etc.), check the status of the UPS, execute different UPS tests or create power quality statistics. You can also constantly monitor and evaluate the event protocol (log file) that is permanently updated. It is also possible to perform a simultaneous shutdown of several servers that are all supported by the same UPS.

- Low battery warning, on-screen backup time, battery time countdown, UPS temperature such as battery and internal temperature, defect battery warning, time and date stamp event logging, extensive logging of all UPS activity and user messaging.
- Battery management, surveillance and counter for power events.
- SMTP compatible system with messaging service for e-mail, e-mail to SMS or other external services.
- Client/server software for heterogeneous networks with one-phased and three-phased UPS.
- "Look & feel" is identical on all platforms.
- Integrated SNMP agent for Mac, NetWare, MS-WINDOWS™ NT/2000, Linux and SUN.
- Supports all important network protocols for the graphical control of the UPS from every Windows Station in the network.
- Automatic unattended shutdown of local and remote computers in networks (Master/Slave via RCCMD module)
- Selftest function, such as economy mode, UPS temperature, battery load, power socket switching and UPS emergency cut-off.
- Shutdown and test functions can be executed with a scheduler.
- Graphic display quality of incoming power load frequency in minimum-maximum or average values.

Check actual compatibilities and updates on GenereX and MegaTec's websites.

More than UPS...



Active power filter



Voltage stabilizer



Rectifier



Inverter



Battery



Battery analyzer



Solar technology



Lightning protection



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