



PROTECT
POWER SYSTEMS



THE SYSTEM
UNINTERRUPTED
POWER SUPPLY



Protect Power Systems is a brand of uninterruptible power supplies with a long history, which has earned recognition from many customers and is represented in a wide variety of industries.

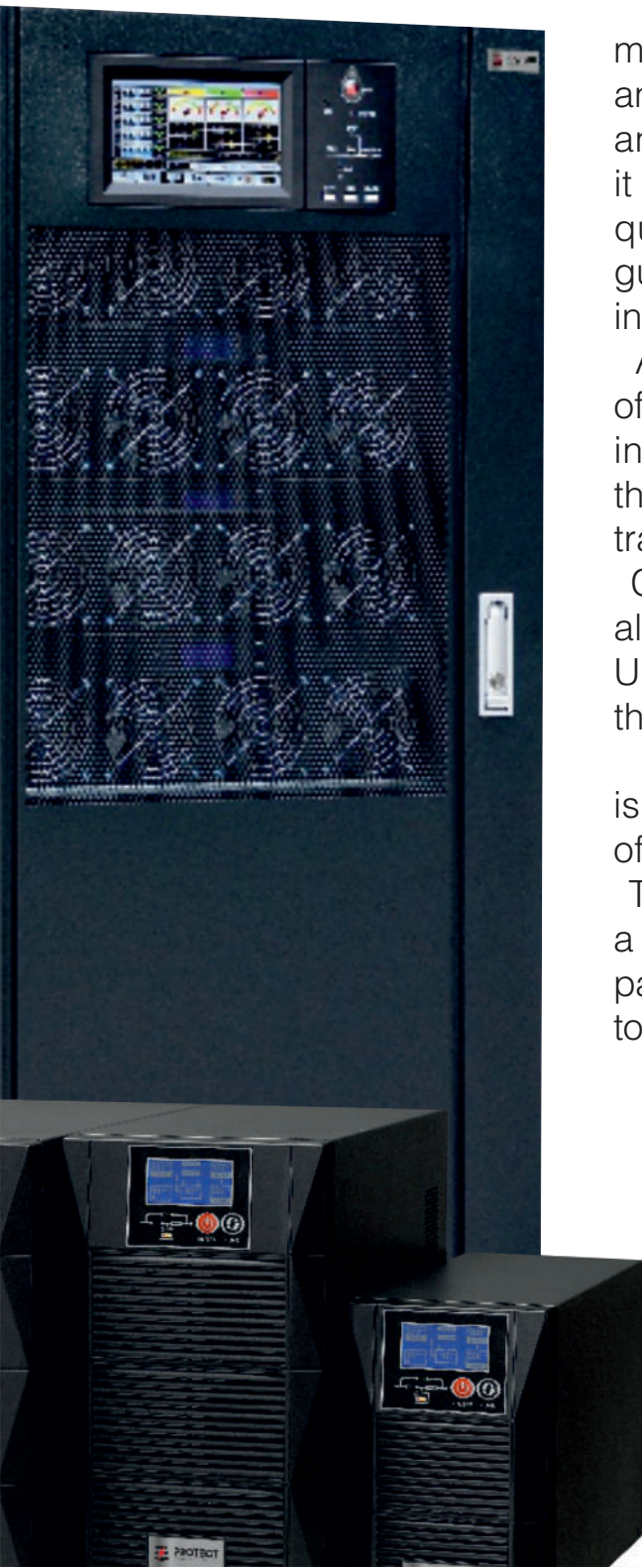
The technical characteristics of the Protect UPS meet modern high requirements and surpass their analogues in many characteristics. Numerous tests and controls at the development stage make it possible to produce serial products with stable quality. High quality standards in production guarantee the delivery of only serviceable UPS in each order.

A wide range of models and flexibility of modifications allow the UPS to be used in various industries, such as the oil and gas industry, the banking sector, data centers, logistics and transport facilities, etc.

Convenient graphical control panels in Russian allow you to fully control all critical parameters of the UPS operation and learn in time about any changes that may lead to load power problems .

The extended warranty period of 24 months is another confirmation of the stability of the quality of all products.

The standard range of UPS includes models with a capacity of up to 500 kW in one package. The parallel operation function of the UPS allows you to increase the power of the system up to 1500kW.



PowerBasic 500-3000 kVA

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PowerNet 19" 1-10 kVA

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PowerLite 11 1-3 kVA

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PowerLite 11 6-10 kVA

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PowerNet 19" VX 10-40 kVA

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PowerLite 33 10-40 kVA

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PowerPro 30 60-120 kVA

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PowerConcept 33 100-500 kVA

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PowerRack 19" 10-90 kVA

19-20



The UPS is linearly interactive



Description:

The Protect PowerBASIC UPS belongs to the class of linearly interactive power supplies. This class of sources is characterized by the ability to correct large input voltage deviations without switching to battery operation. Line-interactive UPS are reliable and at the same time cost-effective devices that provide power to office, network and computer equipment.



Application:

- Office and home computers
- Network equipment

Features:

- Advanced control technology (DSP), which allows you to protect sensitive equipment from power outages and overvoltages
- Wide input voltage range
- Battery cold start function
- Short circuit protection

Additional options:

- LCD screen
- USB, RJ45/11 interfaces
- C13 or Schuko output connectors

Technical specifications:								
Model	500	600	800	1000	1200	1500	2000	3000
Power	500 VA 300 W	600 VA 360 W	800 VA 480 W	1000 VA 600 W	1200 VA 720 W	1500 VA 900 W	2000 VA 1200 W	3000 VA 1800 W
Input								
Input voltage	220V/230V/240V						220V	
Input voltage range	145-290V						175-275V	
Frequency	50/60 Hz (automatic selection)						50 Hz	
Battery								
Quantity and capacity	1x12V* 4,5Ah	1x12V* 7Ah	1x12V* 9Ah	2x12V* 7Ah	2x12V* 7Ah	4x12V* 7Ah	2x12V* 7Ah	4x12V* 9Ah
Type	Sealed lead-acid rechargeable battery, maintenance-free							
Switching time	2-6 ms is standard, but no more than 10 ms						Less than 10 ms	
Charging time	4-6 hours to 90%						10-16 hours	
Output								
Output voltage	220V/230V/240V						220V	
Frequency	50/60 Hz (automatic selection)						50 Hz	
The waveform	A sine wave when working with the network, rectangular when working on battery power							
General information								
Protection	A fuse for protection against overcurrent and short circuit. Protection of batteries from deep discharge, warning of failure.							
Operating temperature	0-40°C (recommended temperature for batteries 20-25°C)							
Noise	< 40 dB							
Weight, kg	5,5	4	6	10,2		10,6	19	21
Sizes HxWxD, mm	140x95x250		140x85x305		190x118x335		265x110x340	220x145x408

The standard manufacturer's warranty is 24 months

Dual Conversion UPS (Online)



Description:

Single-phase PowerNet UPS can be installed in a 19" cabinet, as well as used as floor-mounted devices. The dual-conversion topology and full-fledged online mode allow you to get a power quality that meets the highest requirements of sensitive equipment. The UPS continuously provides the output voltage shape in the form of an ideal sine wave. Switching to battery operation takes place without interrupting the power supply. The intelligent charging system prolongs battery life, modifications with powerful chargers allow the use of large external batteries to achieve long-term autonomy.



Application:

- Server rooms
- Industrial Internet of Things (IIoT)
- Offices and households

Features:

- Wide range of input voltages
- High output power factor - 0.9
- Multi-level protection system
- Network protection
- LCD/LED display
- 19-inch version of UPS and battery packs
- Powerful charger

Additional options:

- Rack Mounting Kit
- Parallel kit (for 6-10 kVA devices)
- SNMP card
- Dry contacts board
- Additional battery cabinet

Technical specifications:						
Model		1 kVA 1 kVA EB	2 kVA 2 kVA EB	3 kVA 3 kVA EB	6 kVA 6 kVA EB	10 kVA 10 kVA EB
Power		1 kVA/0,9 kW	2 kVA/1,8 kW	3 kVA/2,7 kW	6 kVA/6 kW	10 kVA/10 kW
Input						
Input voltage		220V/230V/240V				
Input connections		1Ph+N+PE				
Power factor		> 0,97			> 0,99	
Frequency		40-70 Hz				
Battery						
Battery voltage		36V	72V	96V	192V	
Power of the charger	STD	1A				
	EB	4A /8A			1-5A	
Output						
Output voltage		220V/230V/240V +/- 1%				
Frequency		50/60 Hz				
Reloading the ability		105-130%-1 minute, 150%-30 seconds			110%-10 minutes, 125%-1 minute, 150%-30 seconds	
General information						
Efficiency		up to 87%	up to 91%	up to 90%	up to 95%	
Degree of protection		IP 20				
Interface		Dry contacts, SNMP card, USB				
Operating temperature		0-40°C (recommended temperature for batteries 20-25°C)				
Relative humidity		0-90% (non-condensing)				
Noise		< 58 dB				
Weight, kg	STD	12	25	32	60	68
	EB	7	8	10	18	21
Sizes HxWxD, mm	STD	87x440x431	174x440x481		174x440x661	
	EB	87x440x431	87x440x481		87x440x551	

- Standard series (STD) with built-in batteries and a 1A charger, additional battery cabinets can be installed.
- Series (EB) without built-in batteries and an enlarged charger for systems designed for long-term autonomy.

The standard manufacturer's warranty is 24 months

PowerLite 11 1-3 kVA

Dual Conversion UPS (Online)



Description:

UPS Protect series PowerLite 11 is an uninterruptible power supply with dual conversion, single-phase input and single-phase output. The PowerLite 11 provides an output voltage with a perfect sine wave. Thanks to the informative LCD display, it is convenient to operate.



Application:

- Video surveillance systems
- Boiler equipment and automation
- Emergency lighting systems

Features:

- Informative LCD display
- Wide input voltage range
- Automatic bypass
- Absolute load protection
- Built-in charger up to 8A (for EB series)

Additional options:

- SNMP card
- Dry contacts board
- Additional battery cabinet

Technical specifications:				
Model		1 kVA 1 kVA EB	2 kVA 2 kVA EB	3 kVA 3 kVA EB
Power	STD EB	1 kVA/0,9 kW	2 kVA/1,8 kW	3 kVA/2,7 kW
Input				
Input voltage		220V/230V/240V		
Input connections		1Ph+N+PE		
Power factor		> 0,97		
Input voltage range		110-288V (at 100% load)		
Frequency		40-70 Hz		
Battery				
Battery voltage	STD EB	36V	72V	96V
Power of the charger	STD	1A		
	EB	4A/8A		
Output				
Output voltage		220V/230V/240V +/- 1% (+/- 5%, TX series)		
Frequency		50/60 Hz		
General information				
Efficiency	STD EB	87%	91%	90%
Degree of protection		IP 20		
Interface		RS232, RS485, Dry contacts, SNMP card		
Operating temperature		0-40°C (recommended temperature for batteries 20-25°C)		
Relative humidity		0-90% (non-condensing)		
Noise		< 58 dB		
Weight, kg	STD	11	21	25
	EB	5	9	10
Sizes HxWxD, mm	STD EB	223x145x354	337x191x375	337x191x428

The standard manufacturer's warranty is 24 months

Dual Conversion UPS (Online)



Description:



UPS Protect series PowerLite 11 is an uninterruptible power supply with dual conversion, single-phase input and single-phase output. The PowerLite 11 provides an output voltage with a perfect sine wave. Thanks to the informative LCD display, it is convenient to operate.

Application:

- Offices and households
- Server rooms

Features:

- Efficiency in the dual conversion mode is up to 95%
- Output power factor PF=1
- Intelligent charger control
- Parallel up to four modules

Additional options:

- Parallel Kit
- SNMP card
- Dry contacts board
- Galvanic Isolation transformer (serial TX)

Technical specifications:			
Model		6 kVA 6 kVA EB	10 kVA 10 kVA EB
Power		6 kVA/6 kW	10 kVA/10 kW
Input			
Input voltage	220V/230V/240V		
Input connections	1Ph+N+PE		
Power factor	> 0,99		
Input voltage range	110-288V (at 100% load)		
Frequency	40-70 Hz		
Battery			
Battery voltage	192V		
Power of the charger	STD	1 A	
	EB	8 A	
Output			
Output voltage	220V/230V/240V +/- 1%		
Frequency	50/60 Hz		
General information			
Efficiency	up to 95%		
Degree of protection	IP 20		
Interface	Dry contacts, SNMP card, USB		
Operating temperature	0-40°C (recommended temperature for batteries 20-25°C)		
Relative humidity	0-90% (non-condensing)		
Noise	< 58 dB		
Weight, kg	STD	56	60
	EB	14	16
Sizes HxWxD, mm	STD	706x191x427	706x191x486
	EB	337x191x427	337x191x486

- Standard series (STD) with built-in batteries and a 1A charger, additional battery cabinets can be installed.
- Series (EB) without built-in batteries and an enlarged charger for systems designed for long-term autonomy.

The standard manufacturer's warranty is 24 months

Dual Conversion UPS (Online)



Description:



The PowerNet 19" VX UPS has a three-phase input and a three-phase output, it is installed both in 19" standard server racks and in outdoor form. The online mode and the dual conversion topology allow it to be used to power the most demanding equipment. The versatile compact form factor and power up to 40 kVA defines a wide range of possible applications. The PowerNet 19" VX UPS can be used for power supply in medium-sized server rooms, as well as the 19" form factor allows it to be installed in various cabinets, including industrial class IP to provide power to equipment in difficult production site conditions.

Application:

- Small server rooms, Edge data centers
- Industrial systems
- Medical equipment

Features:

- The ability to configure a 3-in-1 network configuration in 10 kVA and 20 kVA models
- Efficiency in double conversion mode up to 96%
- Output power factor PF=1
- The ability to connect external batteries
- The coefficient of nonlinear current distortion is less than 3%
- The possibility of parallel operation
- High overload capacity
- Friendly operation interface, high-resolution LCD screen

Additional options:

- Parallel Kit
- Battery cold start
- SNMP card
- Dry contacts board

Technical specifications:						
Model	10 kVA	15 kVA	20 kVA	25 kVA	30 kVA	40 kVA
Power	10kVA/10kW	15kVA/15kW	20kVA/20kW	25kVA/25kW	30kVA/30kW	40kVA/40kW
Input						
Input voltage	380V/400V/415V					
Input connections	3Ph+N+PE					
Power factor	> 0,99					
Input voltage range	304-478V (at 100% load)					
Frequency	40-70 Hz					
Input coefficient of nonlinear stresses	<4% (at 100% linear loading)		<3% (at 100% linear load)			
Battery						
Battery voltage	±240 V					
Power of the charger	20% from the UPS power					
«Cold start»	Yes					
Output						
Output voltage	380V/400V/415V +/- 2%					
Frequency	50/60 Hz +/- 0,01%					
Reloading the ability	110%-60 minutes, 125%-10 minutes, 150%-1 minute, >150% within 200ms					
General information						
Efficiency	up to 95,0%				up to 96,0%	
The Control Panel	Color touch screen + LEDs					
Interface	RS232(only 10-25 kVA), USB (only 40 kVA), RS485, configurable Dry contacts					
Options	SNMP card, a set of parallel work		SNMP card, parallel operation kit, synchronization card			
Operating temperature	0-40°C					
Relative humidity	0-95% (non-condensing)					
Noise	< 58 dB					
Weight, kg	25		30		41	
Sizes HxWxD, mm	438x780x130				438x700x174	

The standard manufacturer's warranty is 24 months

Dual Conversion UPS (Online)



Description:



The three-phase UPS of the PowerLite 33 series are manufactured using the latest technologies, which allows for high quality power supply, high power factor, low coefficient of nonlinear distortion and high efficiency.

Application:

- Internet service providers, data storage and processing centers
- Offices and households
- Production sites

Features:

- Efficiency in double conversion mode up to 96%
- Output power factor = 1 (10-15 kVA), 0.9 (20-40 kVA)
- Output power factor FP = 0.99
- The coefficient of nonlinear current distortion is less than 3%
- Intelligent battery charging system
- High overload capacity. The ability to work with a reboot of up to 110% without switching to a static bypass for an unlimited time
- Parallel up to 8 units
- Friendly operation interface, high-resolution LCD screen

Additional options:

- Parallel Kit
- Battery cold start
- SNMP card
- Dry contacts board
- Is a set of connecting elements for built-in batteries
- Separation transformer (TX series)

Technical specifications:						
Model		10 kVA IB 10 kVA 10 kVA TX	15 kVA IB 15 kVA 15 kVA TX	20 kVA IB 20 kVA 20 kVA TX	30 kVA IB 30 kVA 30 kVA TX	40 kVA IB 40 kVA 40 kVA TX
Power	IB STD	10 kVA/10 kW	15 kVA/15 kW	20 kVA/18 kW	30 kVA/27 kW	40 kVA/36 kW
	TX	10 kVA/9 kW	15 kVA/13,5 kW	20 kVA/18 kW	30 kVA/27 kW	40 kVA/36 kW
Input						
Input voltage		380V/400V/415V				
Input connections		3Ph+N+PE				
Power factor		> 0,99				
Input voltage range		304-478V (at 100% load)				
Frequency		40-70 Hz				
Battery						
Battery voltage		±240 V				
Power of the charger		20% from the UPS power				
Output						
Output voltage		380V/400V/415V +/- 2%				
Frequency		50/60 Hz +/- 0,01%				
Reloading the ability		110%-60 minutes, 125%-10 minutes, 150%-1 minute, >150% within 200ms				
General information						
Efficiency		up to 95%, in ECO mode up to 99% (for TX series up to 92%, in ECO mode 95%)				
Degree of protection		IP 20				
Interface		RS232, RS485, Dry contacts, SNMP card				
Operating temperature		0-40°C (recommended temperature for batteries 20-25°C)				
Relative humidity		0-90% (non-condensing)				
Noise		< 58 dB				
Weight, kg	IB	110	110	200	230	350
	STD	30	30	50	50	60
	TX	200	220	240	300	330
Sizes HxWxD, mm	IB	716x252x841		1336x352x740		1400x500x842
	STD	531x252x660		771x252x682		771x252x842
	TX	1336x352x740			1400x500x842	1800x600x980

The standard manufacturer's warranty is 24 months

Dual Conversion UPS (Online)



Description:



The UPS of the PowerPro 33 series is created using modern advanced technologies to ensure high-quality power supply for a responsible load and has a wide range of applications. The modular architecture of the power units ensures maximum reliability and ease of operation.

Application:

- Data centers
- IT infrastructure
- Medical centers

Features:

- Efficiency in the dual conversion mode is up to 95%
- Output power factor = 1.0
- Output power factor FP = 0.99
- The coefficient of nonlinear current distortion is less than 3%
- Intelligent battery charging system
- Modular architecture of power units
- High overload capacity
- The possibility of parallel operation
- Friendly operation interface, high-resolution LCD screen

Additional options:

- Parallel Kit
- Battery cold start
- SNMP card
- Dry contacts board

Technical specifications:			
Model	60 kVA	90 kVA	120 kVA
Power	60 kVA/60 kW	90 kVA/90 kW	120 kVA/120 kW
Input			
Input voltage	380V/400V/415V		
Input connections	3Ph+N+PE		
Power factor	> 0,99		
Input voltage range	304-478V (at 100% load)		
Frequency	40-70 Hz		
Battery			
Battery voltage	±240 V		
Power of the charger	20% from the UPS power		
Output			
Output voltage	380V/400V/415V +/- 2%		
Frequency	50/60 Hz +/- 0,01%		
Reloading the ability	110%-60 minutes, 125%-10 minutes, 150%-1 minute, >150% within 200ms		
General information			
Efficiency	up to 95%, in ECO mode up to 99%		
Degree of protection	IP 20		
Interface	RS232, RS485, Dry contacts, SNMP card		
Operating temperature	0-40°C (recommended temperature for batteries 20-25°C)		
Relative humidity	0-90% (non-condensing)		
Noise	< 68 dB		
Weight, kg	170	231	266
Sizes HxWxD, mm	951x600x982	1400x600x982	1400x600x982

The standard manufacturer's warranty is 24 months

Dual Conversion UPS (Online)



Description:



The UPS of the PowerPro 33 series is created using modern advanced technologies to ensure high-quality power supply for a responsible load and has a wide range of applications. The modular architecture of the power units ensures maximum reliability and ease of operation.

Application:

- Data centers
- IT infrastructure
- Medical centers

Features:

- Efficiency in double conversion mode up to 96%
- Output power factor = 1.0
- Input power factor = 0.99
- The coefficient of nonlinear current distortion is less than 3%
- Intelligent battery charging system
- Modular architecture of power units
- Modular architecture of power units
- High overload capacity
- The possibility of parallel operation
- Friendly operation interface, high-resolution LCD screen

Additional options:

- Parallel Kit
- Battery cold start
- SNMP card
- Dry contacts board

Technical specifications:							
Model	100 kVA	150 kVA	200 kVA	250 kVA	300 kVA	400 kVA	500 kVA
Power	100 kVA 100 kW	150 kVA 150 kW	200 kVA 200 kW	250 kVA 250 kW	300 kVA 300 kW	400 kVA 400 kW	500 kVA 500 kW
	Input						
Input voltage	380V/400V/415V						
Input connections	3Ph+N+PE						
Power factor	> 0,99						
Input voltage range	304-478V (при 100% загрузке)						
Frequency	40-70 Hz						
	Battery						
Battery voltage	±240 V						
Power of the charger	20% of the UPS power						
	Output						
Output voltage	380V/400V/415V +/- 2%						
Frequency	50/60 Hz +/- 0,01%						
Reloading the ability	110%-60 minutes, 125%-10 minutes, 150%-1 minute, >150% within 200ms						
	General information						
Efficiency	up to 95%, in ECO mode up to 99%						
Degree of protection	IP 20						
Interface	RS232, RS485, Dry contacts, SNMP card						
Operating temperature	0-40°C (recommended temperature for batteries 20-25°C)						
Relative humidity	0-90% (non-condensing)						
Noise	< 72 dB						
Weight, kg	210	305	350	445	490	810	890
Sizes HxWxD, mm	1150x600 x982	1599x652x962			1995x652 x962	1995x1300x1100	

The standard manufacturer's warranty is 24 months

PowerRack 19" 10-90 kVA

Modular UPS (online) with 3-in-3, 3-in-1 or 1-in-1 configuration options



Description:



The PowerRack 19" series UPS can be used as stand-alone devices (in its own enclosure) or install it inside a 19" telecommunications cabinet. The PowerRack 19" UPS combines a high level of efficiency and compactness. The uninterruptible power supply of the above series is equipped with modules of 10 or 15 kVA, and thanks to the scalable architecture, the total power can reach 90 kVA in a single design and up to 240 kVA when building a parallel system.

Application:

- Server racks
- Data centers
- Transport infrastructure

Features:

- Possibility of 3-in-3, 3-in-1 or 1-in-1 network configuration
- Friendly operation interface, high-resolution LCD screen
- Efficiency in the dual conversion mode is up to 95% (up to 98% in ECO-mode)
- Output power factor = 1
- The coefficient of nonlinear current distortion is less than 3%
- Connection of up to 4 racks in parallel (only for 10 kVA modules)
- Degree of protection up to Ip65

Additional options:

- Parallel Kit
- Additional charger 15A (2U)
- Module for installing batteries in a rack (40pcs 7/9Ah, 4U)
- Separation transformer
- SNMP card



Technical specifications:							
Model	20 kVA/10x	30 kVA/10x	40 kVA/10x	60 kVA/10x	30 kVA/15x	45 kVA/15x	90 kVA/15x
Power	10-20 kW	10-30 kW	10-40 kW	10-60 kW	15-30 kW	15-45 kW	15-90 kW
	Input						
Input voltage	380V/400V/415V, 50/60Hz or 220V/230V/240V, 50/60Hz						
Power factor	> 0,99						
Frequency	40-70 Hz						
The coefficient of nonlinear distortion	< 3%						
	Battery						
Battery voltage	±240 V						
Power of the charger	20% from the UPS power						
	Output						
Output voltage	380V/400V/415V или 220V/230V/240V						
Frequency	50/60 Hz +/- 0,01%						
Reloading the ability	110%-60 minutes, 125%-10 minutes, 150%-1 minute, >150% within 200ms						
	General information						
Efficiency	up to 95%, in ECO mode up to 99%						
Degree of protection	IP 20 (optional up to Ip65)						
Interface	RS232, RS485, Dry contacts, SNMP card						
Operating temperature	0-40°C (recommended temperature for batteries 20-25°C)						
Relative humidity	0-90% (non-condensing)						
Noise	< 55 dB						
Weight, kg	72,6	87,9	112,2	161,8	73,0	101,5	163,0
Sizes HxWxD, mm	398(7U)x 485x697	575(11U)x 485x751	575(11U)x 485x697	1033(21U)x 485x751	398(7U)x 485x697	575(11U)x 485x751	1033(21U)x 485x751

The standard manufacturer's warranty is 24 months

