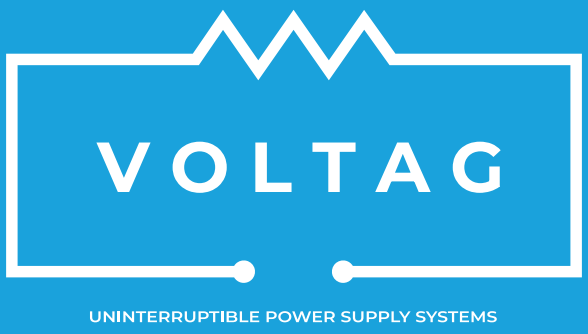


PRODUCT CATALOG

VOLTAG is a Russian manufacturing company located in Ekaterinburg whose flagship products are DC and AC uninterruptible power supply systems. Through rigorous R&D and testing, our team consistently delivers unmatched industrial-grade equipment to the market.

We are dedicated to ensuring your business continuity during power outages and other emergencies.

Our product range includes advanced, diverse, commercially manufactured devices with standardized components. VOLTAG offers seven different product lines using state-of-the-art production technologies and equipment.

Please continue reading for detailed information about these products.

OVERVIEW:

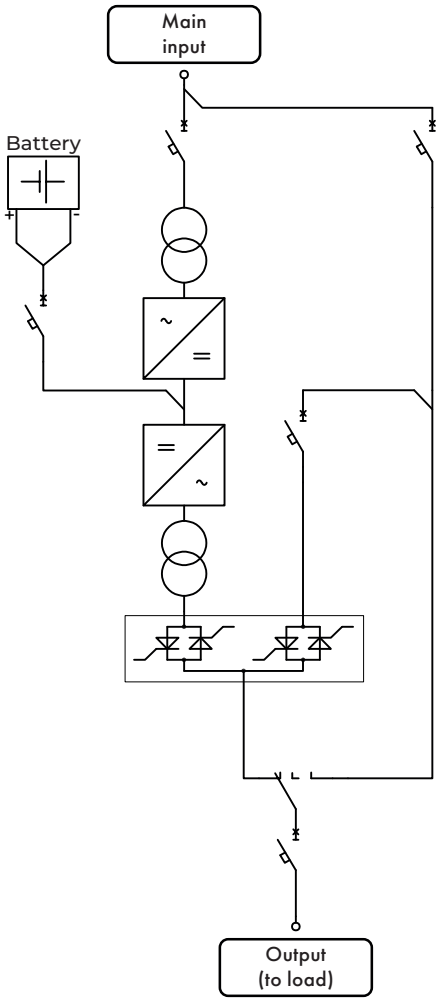
• The uninterruptible power supply with a built-in rechargeable battery is the perfect choice for providing high-quality AC power to critical 50 Hz AC consumers, or DC power in emergency mode

KEY FUNCTIONS:

• Protection against power outages
• Voltage stabilization
• Interference suppression

COMPETITIVE EDGE GEATURES:

• Control system (interactive mnemonic diagram, measurements, settings, event log)
• Cable-free parallel redundant operation
• The inputs/outputs are electrically isolated from the DC supply circuit
• Deep battery discharge protection.
• Independent control boards for the rectifier charger, inverter, and bypass circuit
• HMI touch panel
• Power factor (cosφ)=1
• Supports unbalanced loads
• Life time: at least 25 years
• Warranty period: 3 years



Rated output power, kVA	Configuration	Dimensions (WxHxD), mm	Weight, kg	Max heat dissipation, W
5	SBPM-UPS-T.T-5-380-NF4	600x800x2100	400	637
10	SBPM-UPS-T.T-10-380-NF4	600x800x2100	430	1 275
15	SBPM-UPS-T.T-15-380-NF4	600x800x2100	535	1 407
20	SBPM-UPS-T.T-20-380-NF4	800x800x2100	581	1 912
30	SBPM-UPS-T.T-30-380-NF4	800x800x2100	828	3 825
40	SBPM-UPS-T.T-40-380-NF4	800x800x2100	845	5 738
50	SBPM-UPS-T.T-50-380-NF4	1200x800x2100	943	6 375
60	SBPM-UPS-T.T-60-380-NF4	1400x800x2100	1 200	7 013
80	SBPM-UPS-T.T-80-380-NF4	1600x800x2100	1 340	10 200
100	SBPM-UPS-T.T-100-380-NF4	1600x800x2100	1 795	12 750
120	SBPM-UPS-T.T-120-380-NF4	2400x800x2100	1 975	15 300
150	SBPM-UPS-T.T-150-380-NF4	2400x800x2100	2 800	19 125
200	SBPM-UPS-T.T-200-380-NF4	3000x800x2100	4 000	25 500
250	SBPM-UPS-T.T-250-380-NF4	3000x800x2100	4 300	31 875

Property	Sandart configuration	Optional
Rated input voltage, V	3x380/3x400	3x220/3x230
Rectifier	6-pulse / 12-pulse	Transistor rectifier charger
Acceptable input voltage deviations (% of the rated value)	± 15	± 20
Power supply frequency, Hz	50±5	60/400
Rated output voltage, V	3x380 / 3×400	3x220/ 3x230/ 1x220/ 1x230
Output frequency, Hz	50 ± 0,1	60/400
Output voltage stability (% ofUrated)	± 2	± 1
Overcurrent capacity (% of Irated)	Mains power: up to 110% for 20 min, up to 125% for 10 min, up to 150% for 1 min, 200% for 30 sec, 250% for 10 sec.	
Output voltage regulation range(% of Urated)	± 2	± 1
Crest factor	3 : 1	Up to 7:1
Unbalanced load (% of Irated)	Up to 100	-
Short circuit conditions, % Irated/msec	300 / 100	700/100
Min efficiency, %	90	95
DC bus voltage, V	= 220	= 400/700
Comm interface	RS485, Ethernet	RS232
Comm protocol	Modbus RTU, TCP	IEC 60870-5-101/61850
Dry contacts	x4 (configurable)	x8
Display	LCD Touch Panel	-
Access for maintenance	One side access	Double-sided access
Available colors	RAL 7035	Any RAL color
Connecting external cables	Bottom	Top
Ingress protection, GOST 14254-80	IP 20	Up to IP54
Seismic qualification	6 degrees, MSK-64	Up to 9 degrees, MSK-64/20G
Operating temperature	From 0 до +40°C	From -40 to +45°C
Climatic rating	UKHL (Boreal climate, indoor)	UKHL2/T1-T3 (boreal climate, outdoor)
Battery current sensor	Remote battery current sensor	Bulit-in battery current sensor
Insulation resistance monitoring	-	Insulation monitoring relay
Base frame	100 mm	200 mm
Spare parts included	For 1 year operation	For 3 years of operation

OVERVIEW:

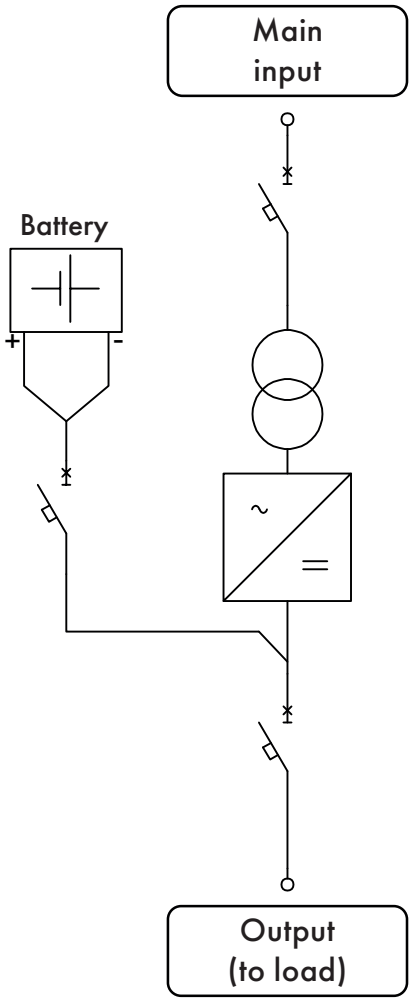
• The charger rectifier is powered from the AC mains. It converts AC to DC to supply DC consumers and charge the battery

KEY FUNCTIONS:

• AC/DC conversion
• Battery charging
• DC voltage stabilization

COMPETITIVE EDGE FEATURES:

• HMI Touch panel
• Control system (interactive mnemonic diagram, measurements, settings, event log)
• Thyristor technology
• 6 or 12 - pulse rectifier
• Parallel operation without data channel (without cable)
• Natural cooling
• Programmable alarms and warnings
• Extra rectifier charger channel
• Life time: at least 25 years
• Warranty period: 3 years



Rated output current, A	Configuration	Dimensions (WxHxD), mm	Weight, kg	Max heat dissipation, W
30	SBPM-RC-T-30-220-NF4	600x600x1700	400	325
40	SBPM-RC-T-40-220-NF4	600x600x1700	440	390
50	SBPM-RC-T-50-220-NF4	600x600x1700	480	595
75	SBPM-RC-T-50-220-NF4	600x600x1700	500	740
100	SBPM-RC-T-100-220-NF4	600x600x1700	560	1 190
150	SBPM-RC-T-160-220-NF4	800x800x2100	720	1 890
200	SBPM-RC-T-200-220-NF4	800x800x2100	760	2 375
300	SBPM-RC-T-300-220-NF4	800x800x2100	850	3 565
400	SBPM-RC-T-400-220-NF4	800x800x2100	950	4 750
500	SBPM-RC-T-500-220-NF4	1600x800x2000	1 100	5 940
600	SBPM-RC-T-600-220-NF4	1600x800x2000	1 260	7 130

Propetry	Standart configuration	Optional
Rated AC input voltage, V	3x380/3x400	3x220
Acceptable input voltage deviations (% of the rated value)	± 15	± 20
Power supply frequency, Hz	50±5	60/400
Rated output voltage	220	24/ 48/ 60/ 110
Output voltage ripple, in % of Unom	1	0,5
Output voltage stability, in % of Unom	1	0,5
Output voltage regulation range (% of Unom)	-15/ +30	-30/ +30
Output current regulation range (% of Inom)	0-100	-
Min efficiency, %	94	6-pulse: 94%, 12-pulse: 94,9%
Rectifier circuit	6-pulse, 12-pulse	-
Comm interface	RS485, Ethernet	RS232
Comm protocol	Modbus RTU, TCP	IEC 60870-5-101/61850
Dry contacts	x4, (configurable)	x8
Display	LCD Touch panel	-
Access for maintenance	One-side access	Double-side access
Available colors	RAL 7035	Any RAL color
Cavle connections	Bottom	Top
Ingress protection, GOST 14254-80	IP 20	Up to IP54
Seismic qualification	6 point, MSK-64	Up to 9 point, MSK-64/20G
Operating temperature	From 0 to +40°C	From -40 to +45°C
Climatic rating	NF4	NF2/T1—T3
Battery current sensor	Remote battery current sensor	Bulit-in battery current sensor
Insulation resistance monitoring	-	Busbar insulation monitoring relay
Base frame	100 mm	200 mm
Spare parts included	For 1 years of operation	For 3 years of operation

OVERVIEW:

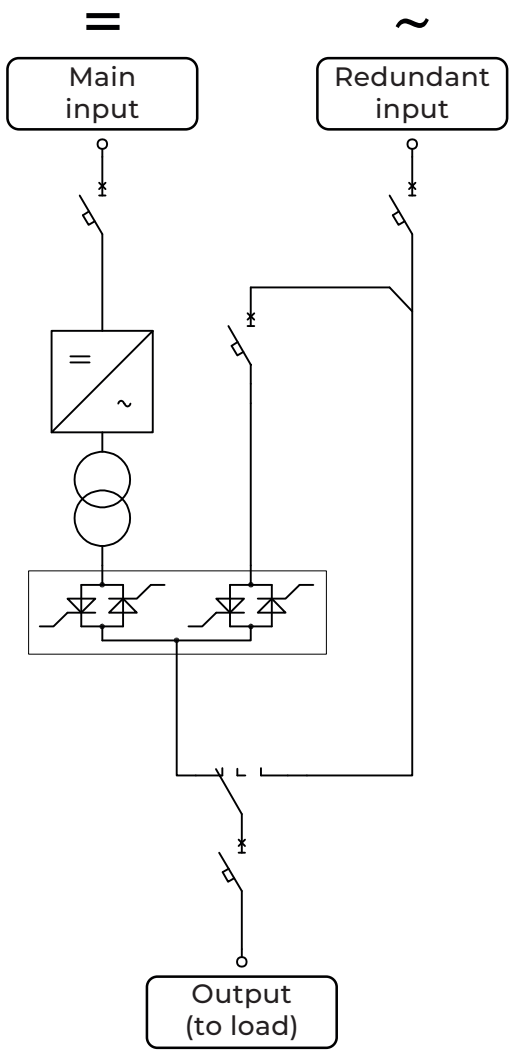
• The perfect choice for supplying high- quality AC power to critical 50 Hz AC consumers from a DC power supply

KEY FUNCTIONS:

• DC/AC conversion
• Frequency generation/regulation
• Voltage regulation

COMPETITIVE EDGE FEATURES:

• Control system (interactive mnemonic diagram, measurements, settings, event log)
• Cable-free parallel redundant operation
• The inputs/outputs are electrically isolated from the DC supply circuit
• Deep battery discharge protection
• Independent control boards for the inverter and bypass circuit
• HMI touch panel
• Power factor (cosφ)=1
• Supports unbalanced loads
• Life time: at least 25 years
• Warranty period: 3 years



Rated output power, kVA	Configuration	Demensions (WxHxD), mm	Weight, kg	Max heat dissipation, W
5	SBPM-VI-T-5-380-NF4	600x600x2100	214	450
10	SBPM-VI-T-10-380-NF4	600x600x2100	247	900
15	SBPM-VI-T-15-380-NF4	600x600x2100	290	1 115
20	SBPM-VI-T-20-380-NF4	600x800x2100	470	1 807
30	SBPM-VI-T-30-380-NF4	600x800x2100	510	2 700
40	SBPM-VI-T-40-380-NF4	600x800x2100	640	3 600
50	SBPM-VI-T-50-380-NF4	600x800x2100	770	4 500
60	SBPM-VI-T-60-380-NF4	800x800x2100	885	5 850
80	SBPM-VI-T-80-380-NF4	800x800x2100	1 020	7 200
100	SBPM-VI-T-100-380-NF4	1200x800x2100	1 180	9 000
120	SBPM-VI-T-120-380-NF4	1600x800x2100	1 357	10 800
150	SBPM-VI-T-150-380-NF4	1600x800x2100	1 560	13 500
200	SBPM-VI-T-200-380-NF4	2200x800x2100	1 795	20 000

Property	Standart configuration	Optional
Rated input voltage, V	=220/400	=110/700
Acceptable input voltage, deviations (% of the rated value)	± 15	± 20
Bypass line frequency, Hz	50±5	60/400
Rated outout voltage, V	3x380 / 3×400	3x220/ 3x230/ 1x220/1x230
Output frequency, Hz	50 ± 0,1	50 ± 0,05
Output voltage stability (% of Urated)	± 2	± 1
Overcurrent capacity (% of Irated)	Mains power: up to 110 for 20 min, up to 125% for 10 min, up to 150% for 1 min , 200% for 30 sec, 250% for 10 sec.	
Output voltage regulation range (% of Urated)	± 2	± 1
Crest factor	3 : 1	Up to 7:1
Unbalanced load (% of Irated)	Up to 100	-
Short circuit conditions, % Irated/msec	300 / 100	700 / 100
Min efficiencs, %	90	95
DC bus voltage, V	= 220	= 400
Comm interface	RS485, Ethernet	RS232
Comm protocol	Modbus RTU, TCP	IEC 60870-5-101/61850
Dry contacts	x4 (configurable)	x8
Display	LCD touch panel	-
Access for maintenance	One-side access	Double-side access
Available colors	RAL 7035	Any RAL color
Cable connection	Bottom	Top
Ingress protection, GOST 14254-80	IP 20	Up to IP54
Seismic qualification	6 points, MSK-64	Up to 9 points, MSK-64/20G
Operating temperature	From 0 to +40°C	From -40 to +45°C
Climatic rating	NF4 (Boreal climate, indoor)	NF2/T1-T3 (Boreal climate, indoor)
Battery current sensor	Remote battery current sensor	Bulit-in battery current sensor
Insulation resistance monitoring	-	Busbar insulation resistance monitoring relay
Base frame	100 mm	200 mm
Spare parts included	For 1 year of operation	For 3 year of operation

KEY FUNCTIONS:

• The HIT-GN, HIT-GN-F, HIT-GN-FS, and HIT-GN-FS series maintenance-free lead-acid batteries, utilizing Gel technology, are designed for UPS and backup power supplies used in communications and energy facilities

• Gel electrolyte batteries do not require distillate topping off throughout their service life; the electrolyte is gel

• The batteries can operate in continuous charging mode (buffering) or discharge-charge cycles

FEATURES:

• Rated voltage – 12 V

• Maintenance-free, low hydrogen emission

• Gel-polymer electrolyte

• Non-flammable polymer

• Life time: 15 years (FS series: 20 years)

• Thermal-runaway resistant

• ABS flame retardant enclosure

• V0 flame rating (optional)

• Pasted + and - plates made of high-quality lead-calcium alloy for low self-discharge and high structural strength of the plates

Model	Length, mm	Width, mm	Height, mm	Voltage, V	Rated capacity A-h
GN-12-35-F	291	106	221	12	35
GN-12-50-F	291	106	221	12	50
GN-12-60-F	291	106	221	12	60
GN-12-70-F	562	114	189	12	70
GN-12-90-F	410	112	293	12	90
GN-12-100-F	410	112	293	12	100
GN-12-105-F	506	112	241	12	100
GN-12-125-F	565	112	294	12	125
GN-12-125-FC	565	112	294	12	125
GN-12-155-F	565	112	294	12	150
GN-12-180-F	560	127	318	12	180
GN-12-180-FC	560	127	318	12	180
GN-12-190-F	560	127	318	12	190
GN-12-200-F	560	127	318	12	200
GN-12-200-FC	560	127	318	12	200
GN-12-220-F	560	127	318	12	220
GN-12-33	195	130	166	12	33
GN-12-35	197	165	175	12	35
GN-12-40	197	165	175	12	40
GN-12-50	229	138	209	12	50
GN-12-55	229	138	209	12	55
GN-12-65	350	167	175	12	65
GN-12-75	260	168	214	12	75
GN-12-80	260	168	214	12	80
GN-12-90	306	169	214	12	90
GN-12-100	330	171	220	12	100
GN-12-120	406	173	226	12	120
GN-12-150	485	172	240	12	150
GN-12-180	522	238	221	12	180
GN-12-200	522	238	221	12	200
GN-12-230	521	269	223	12	230

KEY FUNCTIONS:

• The AN and AN-F series maintenance-free lead-acid batteries, utilizing AGM technology, are designed for UPS and backup power supplies used in communications and energy facilities.

• AGM (Absorbent Glass Mat) batteries do not require distillate topping off throughout their service life; the electrolyte is absorbed in the fiberglass mat.

• The batteries can operate in continuous charging mode (buffering) or discharge-charge cycles

FEATURES:

• Rated voltage: 12 V

• Life time in continuous charging mode: 15 years

• Up to 99% of the battery gas is recombined with AGM technology

• Maintenance-free

• ABS flame retardant enclosure

• Pasted + and - plates made of high-quality lead-calcium alloy for low self-discharge and high structural strength

• Safe for air transport

• Horizontal or vertical orientation

Model	Length, mm	Width, mm	Height, mm	Voltage, V	Rated capacity A-h
AN-12-35-F	291	106	221	12	35
AN-12-50-F	291	106	221	12	50
AN-12-60-F	291	106	221	12	60
AN-12-70-F	562	114	189	12	70
AN-12-90-F	410	112	293	12	90
AN-12-100-F	410	112	293	12	100
AN-12-105-F	506	112	241	12	105
AN-12-125-F	565	112	294	12	125
AN-12-155-F	565	112	294	12	155
AN-12-180-F	560	127	318	12	180
AN-12-190-F	560	127	318	12	190
AN-12-200-F	560	127	318	12	200
AN-12-220-F	560	127	318	12	220
AN-12-12	151	98	101	12	12
AN-12-18	181	77	167	12	18
AN-12-28	166	175	101	12	28
AN-12-33	195	130	166	12	33
AN-12-35	197	165	175	12	35
AN-12-40	197	165	175	12	40
AN-12-50	229	138	209	12	50
AN-12-55	229	138	209	12	55
AN-12-65	350	167	175	12	65
AN-12-75	260	168	214	12	75
AN-12-80	260	168	214	12	80
AN-12-90	306	169	214	12	90
AN-12-100	330	171	220	12	100
AN-12-120	406	173	226	12	120
AN-12-150	485	172	240	12	150
AN-12-180	522	238	221	12	180
AN-12-200	522	238	221	12	200
AN-12-230	521	269	223	12	230

KEY FUNCTIONS:

• The batteries are designed for battery packs used as backup DC sources in uninterruptible power supplies for energy, telecom, and other facilities.

• Model number structure example: 4 OPzS 200:
4 - number of positive plates
O - stationary
PzS - lead-acid battery with gripositive electrode
200 - rated 10-hour discharge capacity in A·h

FEATURES:

• Rated voltage: 2V

• Tubular positive plates are injection-molded from a lead-antimony alloy

• Pasted negative plates with low-antimony alloy straps

• Service life: min 25 years

• No water topping is required for 3-5 years. The recombination plug battery (optional) is maintenance-free for its entire service life

• The positive plate design Enhances reliability

• The separators are made of microporous material

• Transparent polymer (SAN) enclosure for monitoring the condition of the plates and electrolyte level. The lid is made of flame-retardant ABS polymer

Model	Length, mm	Width, mm	Height, mm	Voltage, V	Rated capacity A-h
2 OPzS 100	103	206	395	2	100
3 OPzS 150	103	206	395	2	150
4 OPzS 200	103	206	395	2	200
5 OPzS 250	124	206	395	2	250
6 OPzS 300	145	206	395	2	300
5 OPzS 350	124	206	511	2	350
6 OPzS 420	145	206	511	2	420
7 OPzS 490	166	206	511	2	490
6 OPzS 600	145	206	686	2	600
7 OPzS 700	145	206	686	2	700
8 OPzS 800	213	191	686	2	800
9 OPzS 900	213	191	686	2	900
10 OPzS 1000	213	233	686	2	1 000
12 OPzS 1200	213	275	686	2	1 200
12 OPzS 1500	213	275	836	2	1 500
14 OPzS 1750	213	275	836	2	1 750
16 OPzS 2000	213	398	812	2	2 000
18 OPzS 2250	213	398	812	2	2 250
20 OPzS 2500	213	488	812	2	2 500
22 OPzS 2750	213	488	812	2	2 750
24 OPzS 3000	213	578	812	2	3 000
26 OPzS 3250	213	578	812	2	3 250
28 OPzS 3500	213	578	812	2	3 500
24 OPzS 3720	213	578	812	2	3720
26 OPzS 4030	213	578	812	2	4030

KEY FUNCTIONS:

• The batteries are designed for battery packs used as backup DC sources in uninterruptible power supplies for energy, telecom, and other facilities

• Batteries are designed for operation in rooms with natural ventilation, including rooms with technological equipment. The ambient air temperature is from -15 °C to + 50 °C (recommended: 20 °C)

• Model number structure example:
4 OPzV 200:
4 - number of positive plates
OPzV - stationary, sealed, maintenance-free
200 - rated 10-hour discharge capacity in A·h

FEATURES:

• Service life: min 20 years

• Rated voltage: 2V

• Up to 1,200 charge/discharge cycles (depending on the depth of discharge)

• Capacity: up to 3,000 A·h

• Non-flammable polymer (Fire Safety Research Institute certified)

• The tubular plates provide a large material/electrolyte interface area for better discharge performance

Model	Length, mm	Width, mm	Height, mm	Voltage, V	Rated capacity A-h
4 OPzV 200	103	206	380	2	224
5 OPzV 250	124	206	380	2	280
6 OPzV 300	145	206	380	2	337
5 OPzV 350	124	206	495	2	416
6 OPzV 420	145	206	495	2	499
7 OPzV 490	166	206	495	2	582
6 OPzV 600	145	206	670	2	748
8 OPzV 800	210	191	670	2	998
10 OPzV 1000	210	233	670	2	1250
12 OPzV 1200	210	275	670	2	1500
12 OPzV 1500	210	275	820	2	1640
16 OPzV 2000	214	399	820	2	2190
20 OPzV 2500	214	497	820	2	2740
24 OPzV 3000	214	576	820	2	3290

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