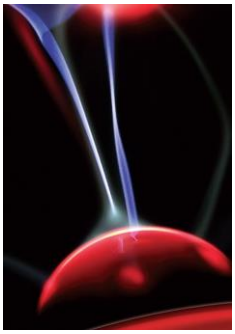
Flexible 1K-1.5K

Rack-Tower Conversion Single Phase UPS



TECHNICAL SPECIFICATION

ELSIST

Electrical System for Continuity

Communication Options

Communication Bay	available independent communication bay for connectivity cards
Compatible Connectivity Cards	SNMP card /Contact Relay Card
Communication Ports	RS232 (DB-9): 2400 bps USB

UPS Model List

Model	Power
1K - **Rackmount**	1000 VA / 900W
1,5K - **Rackmount**	1500 VA / 1500W

Weights and Dimensions

Model (Rackmount UPS)	Dimensions (W *D *H)	Weight
1K - **RT**	440*430*86.5mm	16.2 kg
1,5K - **RT**	440*430*86.5mm	18.7 kg

Electrical Input

Nominal Frequency	50/60 Hz auto-sensing
Frequency Range	45–55 Hz(50Hz)/55-65Hz(60Hz) before transfer to battery
Bypass Voltage Range	+5%,+10%,+15%,+25% (+25% default) -20%,-30%,-45% (-45% default)

Model	Input Voltage/Current	Selectable Input Voltages	Voltage Range at 100% Load
1K	230V / 6,5A	200/208/220/230/240	160 - 290Vac
1,5K	230V / 6,5A	200/208/220/230/240	160 - 290Vac

Input connection

Model	Input Connections	Input Cable
1K - **RT**	terminal block	/
1,5K - **RT**	terminal block	/

Electrical Output

	1K	1.5K
Nominal Outputs	200/208/220/230/240V	
	(voltage configurable or auto-sensing)	
	1000 VA	1500 VA
	0.9 KW	1.5 KW
Frequency	50 or 60 Hz, autosensing	
Output Overload (Normal Mode)	108%±5% – 150%±5%: Load transfers to Bypass mode after 30 seconds.	
	150%±5% – 200%±5%: Load transfers to Bypass mode after 300 ms.	
	>200%±5%: Load transfers to Bypass mode after 20 ms.	
Output Overload (Bypass Mode)	100%±5%–130%±5%: Load transfers to Fault mode after 20 minutes.	
	130%±5% – 150%±5%: Load transfers to Fault mode after 2 minutes.	
	150%±5% – 200%±5%: Load transfers to Fault mode after 15 seconds.	
	>200%±5%: Load transfers to Fault mode after 140 ms.	
Output Overload (Battery Mode)	108%±5% – 150%±5%: Load transfers to Fault mode after 30 seconds.	
	150%±5% – 200%±5%: Load transfers to Fault mode after 300 ms.	
	>200%±5%: Load transfers to Fault mode after 20 ms.	
Voltage Waveform	Sine wave	
Harmonic Distortion	<3% THD on linear load; <5% THD on non-linear load	
Transfer Time	Online mode: 0 ms (no break)	
	High Efficiency mode: 10ms maximum (due to loss of utility)	
Power Factor	0.9	1
Load Crest Factor	3 to 1	

Output Connections

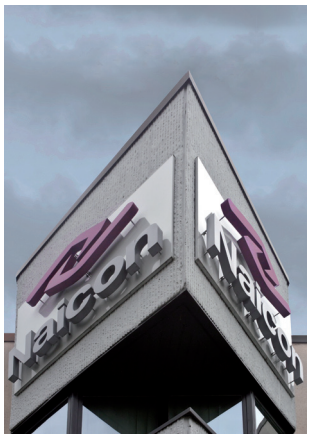
Model	Output Connections	Output Cables
1K - **RT**	terminal block	/
1,5K - **RT**	terminal block	/

Environmental and Safety

Surge Suppression	EN 61000-2-2
	EN 61000-4-2, Level 4
	EN 61000-4-3, Level 3
	EN 61000-4-4, Level 4 (also on signal ports)
	EN 6100-4-5, Level 4 Criteria A
EMC Certifications	CE per IEC/EN 62040-2,
	Class B
EMC (Emissions)	IEC 62040-2:ed2:2005 / EN 62040-2:2006
Safety Conformance	IEC 62040-1-1, IEC 60950-1
Agency Markings	CE
Operating Temperature	0°C to 40°C (32°F to 104°F) in Online mode
	NOTE Thermal protection switches load to Bypass in case of overheating.
Storage Temperature	-20°C to 40°C (-4°F to 104°F) with batteries
	-25°C to 55°C (-13°F to 131°F) without batteries
Relative Humidity	0–90% non condensing
Operating Altitude	Up to 3,000 meters (9,843 ft) above sea level with linear derating for altitude
Audible Noise	<55 dBA at 1 meter typical
Leakage Current	<1.5 mA

Battery

	Internal Batteries
Battery Configuration	1000 VA: 24Vdc (2x 12V 7Ah)
Battery Configuration	1500 VA: 36Vdc (3x 12V 9Ah)
Type	Sealed, maintenance-free, valve-regulated, lead-acid, with minimum 3-year float service life at 25°C (77°F)
Recharge Time	8 hours to 90%



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