

NEOLINE PRO RT

1-3kVA ONLINE UPS

High performance single-phase ON-LINE UPS with double conversion topology and Power Factor = 0.9. The Neoline Pro UPS provide excellent protection for critical loads and the elimination of all surges and disruptive noise. With zero transfer time, pure sine wave output and the ability to support different loads, it is the optimum solution for integrated home and IT equipment protection from costly interruptions. They also support Rack / Tower layout configuration.

1 phase in / 1 phase out



ENHANCED POWER PROTECTION



TELECOM



SERVERS



LIGHT
INDUSTRY



SECURITY



OFFICE
COMPUTERS



NAVAL
ELECTRONICS



MEDICAL
APPLICATIONS

GENERAL SPECIFICATIONS

- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
50 / 60Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 4 h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Hot-swappable battery
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, MBS (External maintenance bypass switch)

NEOLINE PRO RT

ONLINE UPS *1 phase in / 1 phase out* 1-3 kVA



MODEL	NEOLINE PRO 1kVA	NEOLINE PRO 2kVA	NEOLINE PRO 3kVA
Capacity	1 kVA / 900 W	2 kVA / 1800 W	3 kVA / 2700 W
INPUT			
Rated voltage	208 / 220 / 230 / 240 Vac		
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)		
Frequency	40 ~ 70 Hz (auto-sensing)		
Power factor	≥ 0.99		
Bypass voltage range	- 25% ~ + 15% settable		
Total harmonic distortion	≤ 6%		
OUTPUT			
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)		
Voltage regulation	± 1%		
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)		
Waveform	Sinusoidal		
Power factor	0.9		
Total harmonic distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)		
Crest factor	3:1		
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms		
BATTERIES			
DC voltage	24 V (S)	48 V (S)	72 V (S)
Inbuilt battery	2 x 9 A	4 x 9 Ah	6 x 9 Ah
Charging current (max.)	1A	1 A	1 A
Recharge time	Standard model: 90% capacity restored in 4 hours; Long time model: depend on the capacity of battery		
SYSTEM			
Efficiency	≥ 90% (Mains mode) ≥ 85% (Battery mode) ≥ 95% (ECO mode)	≥ 91% (Mains mode) ≥ 86% (Battery mode) ≥ 96% (ECO mode)	≥ 92% (Mains mode) ≥ 87% (Battery mode) ≥ 97% (ECO mode)
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)		
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection		
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)		
Display	LCD + LED		
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1		
OTHERS			
Operating temperature	0°C ~ 40°C		
Storage temperature	- 25 ~ 55°C (without batteries)		
Relative humidity	0 ~ 95% (non-condensing)		
Altitude	≤ 1000 m, derating 1% for each additional 100 m		
IP rating	IP 20		
Noise level at 1m	≤ 50 dB		
Dimensions (W x D x H) (mm)	440 x 338 x 88	440 x 430 x 88	440 x 560 x 88
Packaged dimensions (W x D x H) (mm)	545 x 428 x 194	545 x 560 x 201	545 x 690 x 201
Net weight (kg)	10.6	18.7	26.8
Gross weight (kg)	11.3	21.8	29.7

* Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac

* S means standard model, H means long time model

* All specifications are subject to change without notice

* Custom-made specifications are acceptable