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# NEOLINE PRO

## UNINTERRUPTIBLE POWER SUPPLIES

### 6-10kVA

1 PHASE IN / 1 PHASE OUT



➔ ONLINE DOUBLE CONVERSION

➔ FULL DIJITAL CONTROL

➔ HIGH EFFICIENCY



TOWER



UPS ONLINE



POWER FACTOR



SERVICE / TECH. SUPPORT



ECO FRIENDLY



## GENERAL SPECIFICATIONS

- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with full digital control
- 3-Level inverter topology, the efficiency can be up to 95.5%
- Wide input voltage range: 110~300Vac
- Dual input source (Optional)
- Generator compatible
- Supporting customized shared battery banks for parallel system (The battery banks should be configured with neutral line)
- Dual Intelligent card slot for touch screen version (Segment LCD optional)
- Maximum charging current up to 15A
- Cold start function
- Dry contact port optional (4 pins input and 4 pins output)
- Intelligent fan speed regulation
- Low noise design, less than 45dB for 6kVA
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm

# TECHNICAL SPECIFICATIONS

MODEL	NEOLINE PRO 106 XL 6KVA	NEOLINE PRO 106 6KVA	NEOLINE PRO 110 XL 10KVA	NEOLINE PRO 110 10KVA
Capacity (VA/W)	6000/6000		10000/10000	
<b>INPUT</b>				
Nominal voltage	208/220/230 VAC (Default) / 240			
Operating voltage range	110-300 VAC (110-300 VAC @ 50% load/176-300 VAC @ 100% load)			
Power factor	≥ 0.99			
THDI	≤ 2%			
Bypass voltage range	208/220 VAC Max.voltage: +25% (Optional +10%, +15%, +20%)			
	230 VAC Max.voltage: +20% (Optional +10%, +15%)			
	240 VAC Max.voltage: +15% (Optional +10%)			
	Min. voltage: -45% (Optional -10%, -20%, -30%)			
Bypass frequency range	40~70Hz			
<b>OUTPUT</b>				
Nominal voltage	208/220/230 VAC (Default) / 240			
Voltage regulation	± 1%			
Power factor	1.0			
Output frequency	50/60Hz ± 10% (Line mode); 50/60Hz (Default) ± 0.1% (Battery mode)			
Crest factor	3:1			
Harmonic distortion	< 1% (Full linear load); < 3% (Full nonlinear load)			
Transfer time	AC mode to Batt. mode: 0; Inverter to Bypass: 0			
Waveform	Pure Sinewave			
Overload	Line mode	105%~110%: 60 min; 110%~125%: 10 min; 125%~150%: 1 min; >150%: 0.5 sec		
	Battery mode	105%~110%: 10 min; 110%~125%: 1 min; 125%~150%: 10 sec; >150%: 0.5 sec		
	Bypass Mode	105%~130%: Overload alarm; 130%~150%: 10 min; 150%~200%: 1 min; >200%: 0.5 sec		
		Breaker 40A		Breaker 63A
<b>EFFICIENCY</b>				
AC Mode	Up to 95.0%		Up to 95.5%	
ECO Mode	Up to 98.8%		Up to 99.0%	
<b>BATTERY</b>				
Battery type	VRLA (Lead acid maintenance free battery)			
Battery voltage	192 (Default)/216/240 VDC	192/240 VDC (Default)	192 (Default)/216/240 VDC	192/240 VDC (Default)
Battery capacity	7Ah or 9Ah			
Typical recharge time	6~8hr (To 90% of full capacity)			
Max. charging current	12A (15A Optional)	1.35A Default (12/15A Optional)	15A	1.35A Default (15A)
	Charging current adapts to the battery type and battery capacity			
<b>MANAGEMENT</b>				
LED Display	Online mode, Battery mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault			
LCD Display	Input voltage, Input frequency, Input current, Output voltage, Output frequency, Output current, Load percentage, Battery voltage, Battery charging/ discharging current, Ambient temperature & Remaining battery backup time, Inner temperature & Remaining battery backup time			
<b>ENVIRONMENTAL</b>				
Operating temperature	0°C~40°C			
Storage temperature	-25°C~55°C			
Humidity range	20~95%RH @ 0°C~40°C (Non condensing)			
Altitude	< 1000m, derating required between 1000 to 3000m			
Noise level	< 45 dBA		< 50 dBA	
<b>PHYSICAL</b>				
Dimension HxWxD (mm)	337x191x460	720x191x460 (With caster)	337x191x460	720x191x460 (With caster)
Weight (kg)	12,5	54,0	14,0	63,0
<b>STANDARDS</b>				
Safety	EN IEC 62040-1: 2019+A11:2021			
EMC	IEC 62040-2-2016, EN 62040-2-2018 C2			
Performance	IEC 62040-3: 2021, EN IEC 62040-3: 2021			