

# NEOLINE PLUS

## 1-10kVA ONLINE UPS

High performance single-phase ON-LINE UPS with double conversion topology and Power Factor = 0.9. The Neoline Plus 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.

*1 phase in / 1 phase out*



### ENHANCED POWER PROTECTION



TELECOM



SERVERS



LIGHT  
INDUSTRY



SECURITY



OFFICE  
COMPUTERS



NAVAL  
ELECTRONICS



MEDICAL  
APPLICATIONS

## GENERAL SPECIFICATIONS

- True double-conversion technology
- Microprocessor control optimises the system reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage (120V - 300V)
- Converter mode available
- ECO mode for energy saving only available for (1-3KVA)
- Generator compatible
- Smart USB/RS-232 connectors and optional SNMP
- LCD display for easy monitoring
- Auto restart setting
- Cold Start
- EPO (Emergency Power Off) Connector (6-10kVA)
- Replaceable hot-swappable batteries

# NEOLINE PLUS

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



MODEL	Neoline Plus 1101ST		Neoline Plus 1102ST		Neoline Plus 1103ST		
TESCOM CODE	UPS.0404		UPS.0405		UPS.0406		
PHASE	Single phase with ground						
CAPACITY	1000 VA / 900 W		2000 VA / 1800 W		3000 VA / 2700 W		
<b>INPUT</b>							
Nominal Voltage	200/208/220/230/240VAC						
Voltage Range	120-300 VAC (Based on load at 50%) 180-280 VAC (Based on load at 100%)						
Frequency Range	40Hz ~ 70 Hz						
Power Factor	≥ 0.99 @ Nominal Voltage (100% load)						
<b>OUTPUT</b>							
Output Voltage	110/115/120/127VAC or 200/208/220/230/240VAC						
Voltage Regulation	± 1%						
Frequency Range (Synchronized Range)	47~ 53 Hz or 57 ~ 63 Hz						
Frequency Range (Batt. Mode)	50 Hz or 60Hz ± 0.5%						
Current Crest Ratio	3:1						
Harmonic Distortion	≤ 3 % THD (Linear Load)						
Transfer Time	AC Mode to Battery Mode	Zero					
	Inverter to Bypass	4 ms (Typical)					
Waveform (Batt. Mode)	Pure Sinewave						
Overload AC mode	105-110%: 10 min / 110-130%: 1 min / >130%: 3 sec to 100ms						
Outlets (Πρίζες)	3 Schuko			4 Schuko / Output Terminal			
<b>EFFICIENCY</b>							
To AC Mode	88%		89%		90%		
To Battery Mode	83%		85%		88%		
<b>BATTERY</b>							
Standard Model	Battery Type	12 V / 9 AH		12 V / 9 AH		12 V / 9 AH	
	Numbers	2		4		6	
	Typical Recharge Time	4 hours recover to 90% capacity					
	Charging Current (max.)	1.0 A					
	Charging Voltage	27.4VDC ± 1%		54.7 VDC ±1%		82.1 VDC ±1%	
<b>INDICATORS</b>							
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators						
<b>ALARM</b>							
Battery Mode	Alarm Sound / 4 Seconds						
Low Battery	Alarm Sound / Second						
Overload	2 Alarm Sounds / Second						
Fault	Continuous Alarm Sound						
<b>PHYSICAL</b>							
Standard Model	Dimension, D x W x H (mm)	282 x 145 x 220		397 x 145 x 220		421 x 190 x 318	
	Net Weight (kgs)	9,8		17		27,6	
<b>ENVIRONMENT</b>							
Humidity	20-90 % RH @ 0- 40°C (non-condensing)						
Noise Level	Less than 50dBA @ 1 Meter						
<b>MANAGEMENT</b>							
Smart RS-232/USB	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC						
Optional SNMP	Power management from SNMP manager and web browser						

\*1-3KVA: De-rate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 100/200/208VAC  
Product specifications are subject to change without further notice

# NEOLINE PLUS

ONLINE UPS *1 phase in / 1 phase out* 6-10 kVA



MODEL	Neoline Plus 1106ST		Neoline Plus 1110ST		Neoline Plus 1103ST XL	Neoline Plus 1106ST XL	Neoline Plus 1110ST XL
TESCOM CODE	UPS.0360	UPS.0552	UPS.0414	UPS.0617	UPS.0866	UPS.0362	UPS.0426
PHASE	Single phase with ground						
CAPACITY	6000VA / 5400W		10000VA / 9000W		3000VA / 2700W	6000VA / 5400W	10000VA / 9000W
<b>INPUT</b>							
Nominal Voltage	208/220/230/240VAC				110/115/120/127VAC or 208/220/230/240VAC	208/220/230/240VAC	
Voltage Range	110-300 VAC (50% load) 176-300 VAC (100% load)				60-145 VAC (50% load) 90-145 VAC (100% load)	110-300 VAC (50% load) 176-300 VAC (100% load)	
Frequency Range	46~54 Hz or 56~64 Hz				40~70 Hz	46~54 Hz or 56~64 Hz	
Power Factor	≥ 0.99 @ Nominal Voltage (100% load)						
<b>OUTPUT</b>							
Output Voltage	208/220/230/240VAC				110/115/120/127VAC or 208/220/230/240VAC	208/220/230/240VAC	
Voltage Regulation	± 1%						
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz				47~53 Hz or 57~63 Hz	46~54 Hz or 56~64 Hz	
Frequency Range (Batt. Mode)	50 Hz or 60Hz ± 0.1 Hz				50 Hz or 60Hz ± 0.5 Hz	50 Hz or 60Hz ± 0.1 Hz	
Current Crest Ratio	3:1						
Harmonic Distortion	≤ 3 % THD (Linear Load)						
Transfer Time	AC Mode to Battery Mode		Zero		Zero	Zero	
	Inverter to Bypass		Zero		4ms (typical)	Zero	
Waveform (Batt. Mode)	Pure Sinewave						
<b>EFFICIENCY</b>							
To AC Mode	92%		93%		90%	92%	93%
To Battery Mode	90%		91%		88%	90%	91%
<b>BATTERY</b>							
Battery Type	12 V / 7 AH	12 V / 9 AH	12 V / 9 AH		Depends on the capacity of external batteries		
Numbers	16	20	16	20	6	16 ~ 20 (Adjustable)	
Typical Recharge Time	9 hours recover to 90% capacity		9 hours recover to 90% capacity		Depends on the capacity of external batteries		
Charging Current (max.)	1A/2A (Adjustable)		1A/2A (Adjustable)		1A/2A/4A/6A	1A/2A/4A/6A (Adjustable)	
Charging Voltage	218.4 VDC ±1%	273 VDC ±1%	218.4 VDC ±1%	273 VDC ±1%	82.1 VDC ±1%	273 VDC ±1% (20pcs batteries)	
<b>INDICATORS</b>							
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators						
<b>ALARM</b>							
Battery Mode	Alarm Sound / 4 Seconds						
Low Battery	Alarm Sound / Second						
Overload	2 Alarm Sounds / Second						
Fault	Continuous Alarm Sound						
<b>PHYSICAL</b>							
Dimension, D x W x H (mm)	369 x 190 x 688	442 x 190 x 688	442 x 190 x 688		397 x 145 x 220	369 x 190 x 318	442 x 190 x 318
Net Weight (kgs)	61	74	66	76	7,6	12	16
<b>ENVIRONMENT</b>							
Humidity (non-condensing)	0-95% RH @ 0-40°C				0-95% RH @ 0-50°C		0-95% RH @ 0-40°C
Noise Level	> 55dBA @ 1m		> 58dBA @ 1m		> 50dBA @ 1m	> 55dBA @ 1m	> 58dBA @ 1m
<b>MANAGEMENT</b>							
Smart RS-232/USB	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC						
Optional SNMP	Power management from SNMP manager and web browser						

\*6-10KVA: De-rate to 60% of capacity in Frequency converter mode and to 90% when the output voltage is adjusted to 208VAC  
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