

## 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.

### 1phase in / 1phase out



#### COMPLETE APPLICATION 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** 1phase in /1phase out **1-10kVA**

MODEL		1101ST	1102ST	1103ST
<b>PHASE</b>		Single phase with ground		
<b>CAPACITY</b>		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 (50% load) 180-280 VAC (100% load)		
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
	Units	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, DxWxH 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		

\*Τα χαρακτηριστικά μπορεί να αλλάξουν χωρίς καμία ενημέρωση.

MODEL	1106ST		1110ST		1103ST XL	1106ST XL	1110ST XL	
<b>PHASE</b>	Single phase with ground							
<b>CAPACITY</b>	6kVA / 5400W		10kVA / 9000W		3kVA / 2700W	6kVA / 5400W	10kVA / 9kVA	
<b>INPUT</b>								
Nominal Voltage	208/220/230/240VAC				110/115/120/127VAC or 208/220/230/240VAC	208/220/230/240VAC		
Voltage Range	50% load		110-300 VAC		60-145 VAC	110-300 VAC		
	100% load		176-300 VAC		90-145 VAC	176-300 VAC		
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 (Synched Range)	46~54 Hz or 56~64 Hz				47~53Hz or 57~63Hz	46~54Hz or 56~64Hz		
Frequency Range (Batt. Mode)	50 Hz or 60Hz ± 0.1 Hz				50Hz or 60Hz ± 0.5Hz	50Hz or 60Hz ± 0.1Hz		
Current Crest Ratio	3:1							
Harmonic Distortion	≤ 3 % THD (Linear Load)							
Transfer Time	AC 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	12V / 7AH	12V / 9AH	12V / 9AH		Depends on batteries capacity			
Units	16	20	16	20	6	16 ~ 20 (Adjustable)		
Typical Recharge Time	9h recover to 90%		9h recover to 90%		Depends on batteries capacity			
Charging Current (max.)	1A/2A (Adjustable)		1A/2A (Adjustable)		1A/2A/4A/6A	1A/2A/4A/6A (Adjustable)		
Charging Voltage ±1%	218.4VDC	273VDC	218.4VDC	273VDC	82.1VDC	273 VDC (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)	369x190x688	442x190x688	442x190x688		397x145x220	369x190x318	442x190x318	
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 @1m	> 55dBA		> 58dBA		> 50dBA	> 55dBA		
<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							

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