

HYBRID SOLAR UPS

1-3kVA ONLINE UPS

The new Neoline Solar manages the power produced by Solar Panels, Wind Turbines, Grid or Generator Sets, in a controlled manner. The Hybrid UPS provides uninterrupted power supply and protection and delivers high efficiency at all output levels ensuring consistent and stable performance across the entire input voltage and output power range. It is equipped with a special designed battery system that provides flexibility on deploying solar solutions. Featuring true double conversion technology, with built - in MPPT solar charger.

1 phase in / 1 phase out



GENERAL SPECIFICATIONS

- True double-conversion online UPS
- Optional high power charging current
- Input power factor correction 0.99
- Built in MPPT solar charger
- Configurable AC/Solar input priority via LCD setting
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart Battery Charger
- Cold Start function
- Wide input voltage 110 V – 280 V
- AC MPPT solar charger 20A

NEOLINE SOLAR

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



MODEL	1KL	2KL	3KL
PHASE	Single phase with ground		
CAPACITY	1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W
INPUT			
Nominal Voltage	220/230/240VAC		
Input Voltage Range	110-280 VAC		
Frequency Range	40Hz ~ 70 Hz		
Power Factor	≥ 0.95 @ Nominal Voltage (100% load)		
OUTPUT			
Output Voltage	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 ± 0.1 Hz		
Current Crest Ratio	3:1		
Harmonic Distortion	≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-linear Load)		
Transfer Time	AC to DC	Zero	
	Inverter to Bypass	4 ms (Typical)	
Waveform (Batt. Mode)	Pure Sinewave		
EFFICIENCY			
To AC Mode	88%	89%	90%
To Battery Mode	83%	87%	88%
BATTERY			
Battery Voltage	36Vdc	72Vdc	72Vdc
Charging Current (max.)	1/2/4/6A(Default), adjustable by internal jumper		
Charging Voltage	41.0VDC ± 1%	82.1VDC ± 1%	82.1VDC ± 1%
SOLAR CHARGER			
Solar Charger Type	MPPT		
Maximum PV Array Open Circuit Voltage	145 VDC	145 VDC	145 VDC
Maximum PV Array Power	1000W	1500W	1500W
MPP Range @ Operating Voltage	40 VDC - 115 VDC	90 VDC - 115 VDC	90 VDC - 115 VDC
Maximum Solar Charge Current	AC Mode	20A	20A
	Battery Mode	15A	15A
PHYSICAL			
IP Rating	IP20		
Dimension, D x W x H (mm)	282 x 145 x 332	400 x 145 x 332	400 x 145 x 332
Net Weight (kgs)	7.6	12	12.3
ENVIRONMENT			
Humidity	20-90 % RH @ 0- 50°C (non-condensing)		
Noise Level	Less than 50dBA @ 1 Meter(avg)		
MANAGEMENT			
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		

**Derate to 80% of capacity in Frequency converter mode.

Product specifications are subject to change without further notice