

ONLINE UPS

RELIABLE POWER BACKUP
FOR CRITICAL INFRASTRUCTURE



Solar Online UPS 1KVA-3KVA



Solar Hybrid
Operation



DSP
Technology



Parallel
Operation



Smart LCD
Display

Comprehensive Solar Energy Information

MPPT Charging Voltage



MPPT Charging Current



MPPT Temperature



MPPT Total Energy Generation



Solar Online UPS 1KVA-3KVA Selection Guide

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	40 Hz ~ 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 Mode to Battery Mode	Zero	
	Inverter to Bypass	4 ms (Typical)	
Waveform (Batt. Mode)	Pure Sinewave		
EFFICIENCY			
AC Mode	88%	89%	90%
Battery Mode	83%	87%	88%
BATTERY			
Battery Voltage	36 VDC	72 VDC	72 VDC
Charging Current (max.)	1A/2A/4A/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			
Dimension, D x W x H (mm)	282 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 50dB @ 1 Meter		
MANAGEMENT			
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		

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

ESIS Power Energy reserves the right to modify these details at any time without prior notification.