

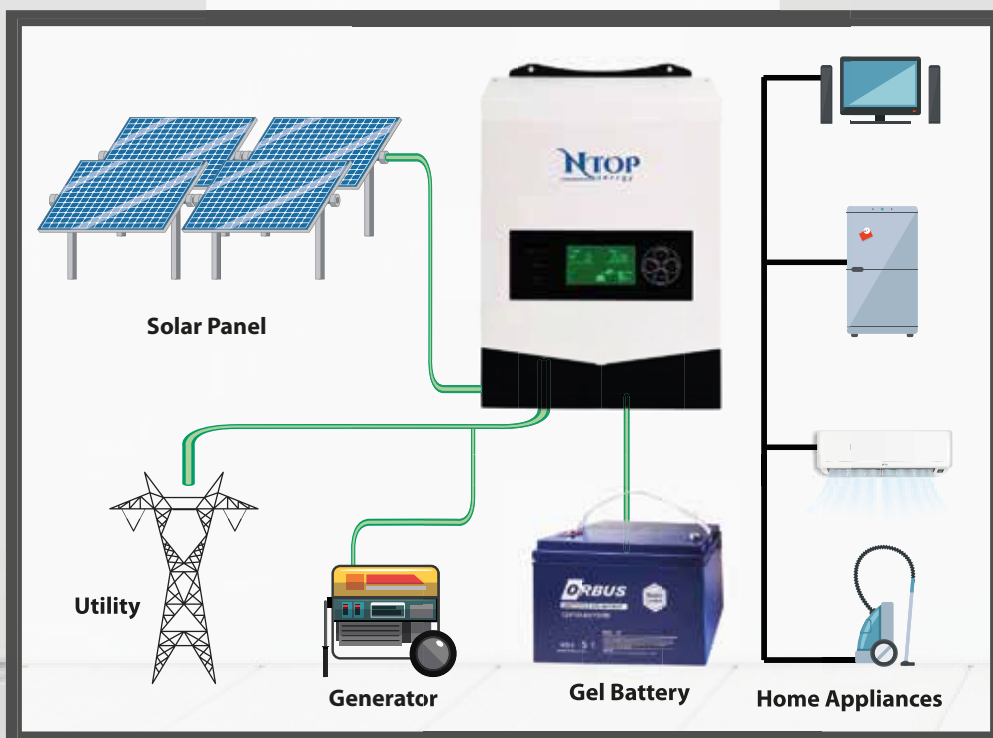
ISUN SERIES

OFF GRID INVERTERS

- MPPT Solar charge controller built inside
- Configurable AC/Solar input priority via LCD setting
- Overload and short circuit protection
- Auto Restart while AC is Recovering
- Selectable AC input voltage range for home appliances and personal computers



Solar System Connection



DATASHEET

MODEL	ISUN-1K	ISUN-2K	ISUN-3K
Input Voltage Waveform	Sinusoidal (utility of generator)		
Nominal Input Voltage	230 Vac		
Low Loss Voltage	170 Vac \pm 7V (UPS); 90Vac \pm 7V (Appliances)		
Low Loss Return Voltage	180 Vac \pm 7V (UPS); 100Vac \pm 7V (Appliances)		
High Loss Voltage	280 Vac \pm 7V		
High Loss Return Voltage	270 Vac \pm 7V		
Max AC Input Voltage	280 Vac		
Nominal Input Frequency	50Hz / 60Hz (Auto detection)		
Low Loss Frequency	40 \pm 1Hz		
Low Loss Return Frequency	42 \pm 1Hz		
High Loss Frequency	65 \pm 1Hz		
High Loss Return Frequency	63 \pm 1Hz		
Output Short Circuit Protection	Circuit Breaker		
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)		
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)		
Inverter Mode Specifications			
Rated Output Power	1KW	2KW	3KW
Output Voltage Waveform	Pure Sine Wave		
Output Voltage Regulation	230Vac \pm 5%		
Output Frequency	50Hz/60Hz		
Peak Efficiency	93%		
Overload Protection	5s@?150% load; 10s@105%~150% load		
Surge Capacity	2* rated power for 5 seconds		
Nominal DC input Voltage	12.0Vdc	24.0Vdc	
Cold Start Voltage	11.5Vdc	23.0Vdc	
Utility Charge Mode	Charge Mode Specifications		
Charging Algorithm	3 steps		
AC Charging Current (Max)	2Amp (INPUT = 230Vac)		
Voltage	14.1Vdc	28.2Vdc	24Vdc
Floating Charging Voltage	13.5Vdc	27Vdc	
MPPT Solar Charging Mode			
Charging Current	40Amp		
System DC Voltage	12Vdc	24Vdc	
Operating Voltage Range	18-80Vdc	36-80Vdc	
Max. PV Array Open Circuit Voltage	115Vdc		
DC Voltage Accuracy	\pm 0.3%		
Max Charging Current (AC+SOLAR)	65Amp		
Best Panel Configuration			
Max generated from solar charger	40Amp, 500W	40Amp, 1000W	40Amp, 1000W or 50Amp, 1200W
Best Panel configuration	250Wp*2PCS*30V	270Wp*2PCS*30V 2 Parallel	270Wp*2PCS*30V 2 Parallel 300Wp*2PCS*30V 2 Parallel