

ON/OFF Grid High frequency Hybrid Solar Inverter
NG3522VMIII Series (3.5KW)

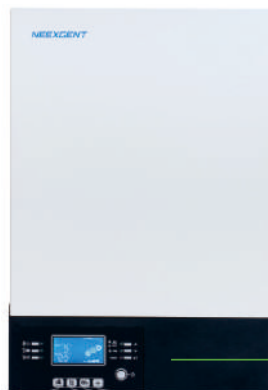
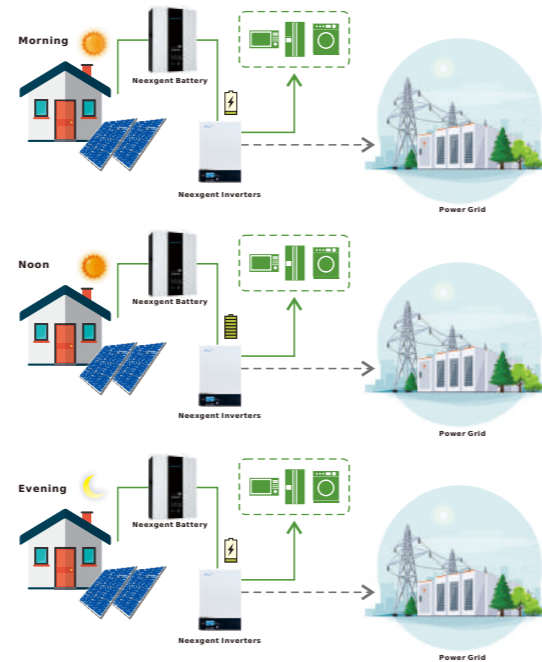


Introduction

This is an upgraded multi functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in portable size. Support Bluetooth for mobile monitoring, and its detachable LCD display module offers user-configurable and easy-accessible button operation such as battery charging current, AC/ solar charger priority, and acceptable input voltage based on different applications.

Features

- 1. Support Bluetooth for mobile monitoring (Android App available).
- 2. Detachable LCD control module with multiple communications
- 3. High efficiency pure sine wave inverter(PF=1); Wide PV input range (120V de -500V de) 80A MPPT SCC; Intelligent 3stage 60A AC battery charger.
- 4. Surges to 2X continuous power for 5 seconds for motor loads.
- 5. Programmable Utility and Solar output usage timer and prioritization.
- 6. Support operation without battery, supply power from Grid or PV if battery not available.
- 7. Auto restart while AC is recovering.
- 8. Field serviceable with replacement boards and spare parts.



- 1. LCD display
- 2. Status indicator
- 3. Charging indicator
- 4. Fault indicator
- 5. Function buttons
- 6. Power on/off switch
- 7. LED indicators for USB function setting/ Output source priority timer / Charger source priority setting

Specification

Model	NG3522VMIII
RATED POWER	3500VA/3500W
INPUT	
Voltage	230 VAC
Sesectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Vottage Regulation (Batt. Mode)	230 VAC ± 5%
Surge Power	7000VA
Efficiency (Peak)	90%-93%
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)
Waveform	Pure sine wave
BATTERY	
Batten Voltage	24VDC
Floating Charge Voltage	27VDC
Overcharge Protection	33VDC
SOLAR CHARGER & AC CHARGER	
Solar charger type	MPPT
Max. PV Array Open Circuit Voltage	500VDC
MPP Range @operatng Voltage	120-450VDC
Max. PV Array Power	5000W
Max. Solar Charge Current	100A
Max. AC Charge Current	60A
Max. Charge Current	80A
PHYSICAL	
Dimension, Dx WxH(mm)	115x300x400
Net Weight (kgs)	9
Communication interface	USB/RS232/RS485/Bluetooth/Dry-contact
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage TempGrature	-15°C to 60°C

Approximate Back-Up Time Table:

Model	Load (VA)	Backup Time @24Vdc 100Ah(min)
3KVA	300	359
	1500	54
	3000	22
Model	Load(VA)	Backup Time @48Vdc 100Ah(min)
5KVA	500	490
	2500	72
	5000	32