

ON/OFF Grid High frequency Hybrid Solar Inverter
NG5032VMIII Series (5KW)

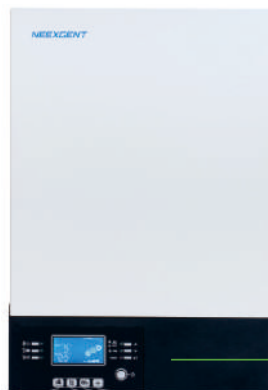
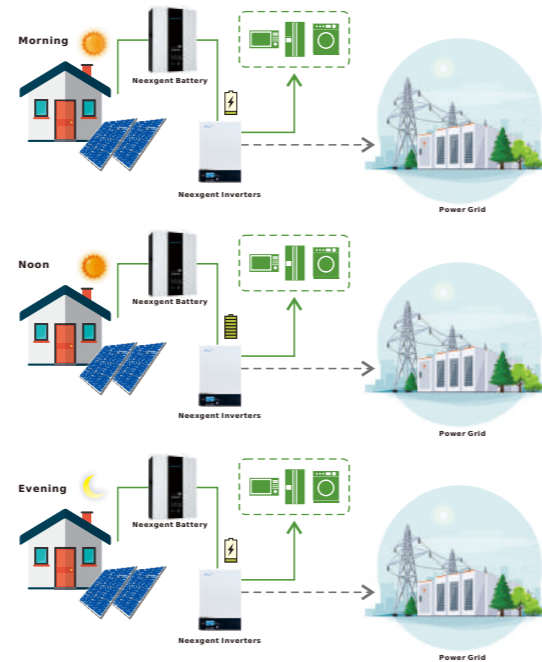


Introduction

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	NG5032VMIII
RATED POWER	5000VA/5000W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230 VAC ± 5%
Surge Power	10000VA
Efficiency (Peak)	90%-93%
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)
Waveform	Pure sine wave
BATTERY	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
Overcharge Protection	63VDC
SOLAR CHARGER & AC CHARGER	
Solar charger type	MPPT
Max. PV Array Open Circuit Voltage	500VDC
MPP Range @operating Voltage	120-450VDC
Max. PV Array Power	5000W
Max. Solar Charge Current	90A
Max. AC Charge Current	60A
Max. Charge Current	80A
PHYSICAL	
Dimension, Dx WxH(mm)	115x300x400
Net Weight (kgs)	10
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 Temperature	-15°C to 60°C

Approximate Back-Up Time Table:

Model	Load (VA)	Backup Time @24Vdc 100Ah(min)
3KVA	300	800
	1500	131
	3000	54
Model	Load(VA)	Backup Time @48Vdc 100Ah(min)
5KVA	500	1030
	2500	172
	5000	72