

N₂ PFC 110
Series
5KVA - 10KVA



NexGen SOLAR POWER ▶ Online UPS

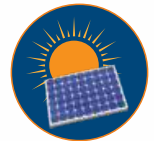
Salient Features

- Selectable DC Bus
- Wide Input Voltage Window
- Power Factor Correction
- Compact Footprint
- Transformer Over Temperature Control
- Temperature Compensated Battery Charging
- Double Conversion UPS
- Auto bypass (optional)
- LCD Display
- SNMP



APPLICATIONS

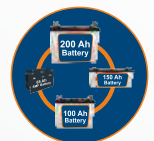
- Workstations/Servers
- Networking Equipment
- Telecom
- Color Labs
- ATM Machines/POS Systems
- Gold Analyser Machines
- Security Systems
- Textile Industry



Solar Compatible



Galvanic Isolation
transformer



Variable Current
Charging



Rs232 / 485 / Wifi / GSM
Bluetooth Connectivity



NexGen

SOLAR

POWER

Online UPS

The NG Series double conversion UPS affordable protects mission critical applications from downtime, data loss and corruption.

The compact double-conversion architecture incorporates rectifier and inverter stages to protect the output power from all input anomalies.

By adapting to wide range of input voltages, the NG series avoid battery usage during minor power fluctuations, saving its capacity for times when utility power is completely lost.

It is solar compatible, so it reduces electricity usage by running day time on solar, leading to increase in battery life.

Features and Performances

- ✔ IGBT Based Rectifier
- ✔ Input Power factor upto 0.99
- ✔ Advanced DSP Based Technology
- ✔ 0.8 output power factor
- ✔ Double conversion efficiency upto 90%
- ✔ Variable charging current
- ✔ Easy site installation and configuration
- ✔ Selectable voltage window

In Built Isolation Transformer :- advantage of isolation transformers is that they reduce power surges. Electrical equipment can run smoothly without the risk of power surges because the DC signals from a power source are isolated. This means that equipment can function at a high level even if there is a power malfunction.

Power Factor Correction :- The power factor correction is a technique of increasing the power factor of a power supply. Ideally, electrical equipment should present a load that emulates a pure resistor, meaning that the reactive power would be zero. The current and voltage waveforms would be the same sine wave and in phase with one another.

SNMP :- UPS are capable of accepting Simple Network Management Protocol (SNMP) communications cards which can monitor and manage UPSs via the network. SNMP cards are an interface between the UPS and the network.

Solar Compatible :- Solar compatibility reduces electricity usage by running day time on solar, leading to increase in battery life.

LCD Display :- Interactive panel display showing the status and fault for better understanding.

Wide Input Voltage Window :- By adapting to wide range of input voltages, the NG series avoid battery usage during minor power fluctuations, saving its capacity for times when utility power is completely lost.

Variable Charging Current :- Ideal for all type of battery as per requirement.

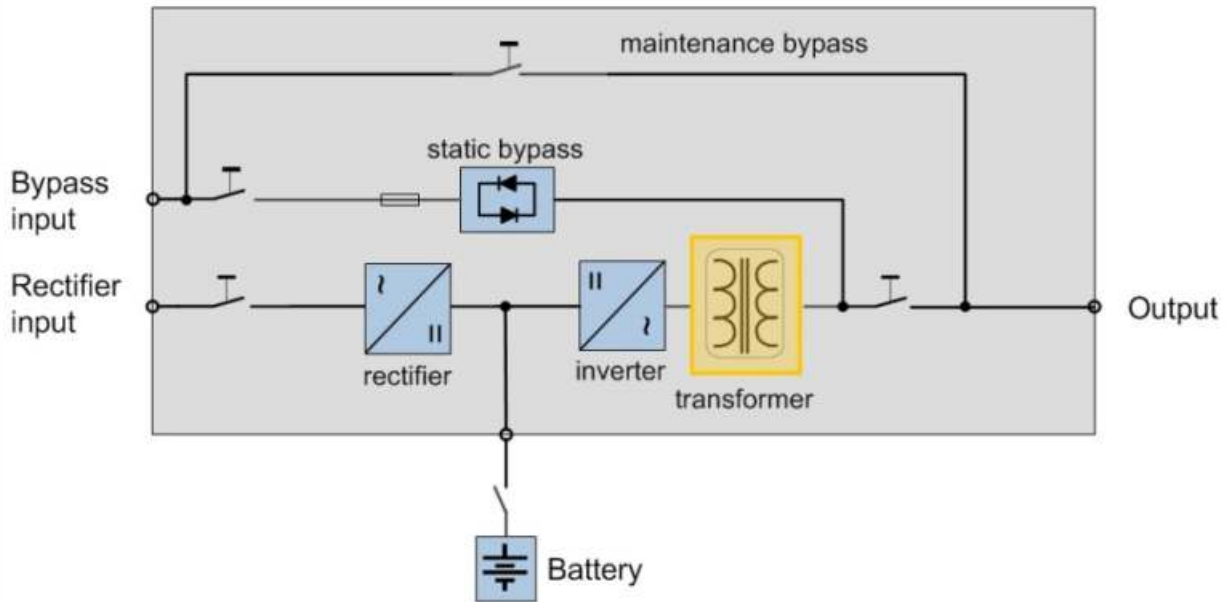
Auto Bypass :- An internal bypass is an automatic function of a UPS system such that when the unlikely event of a UPS internal fault occurs, the UPS will transfer itself to bypass power to give power to connected equipment.





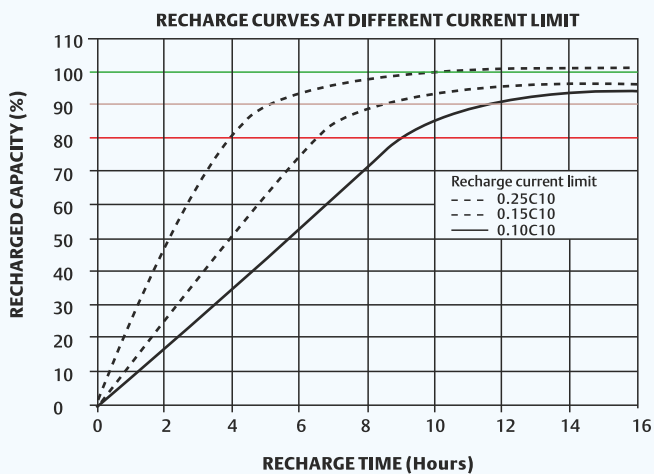
Advantage of Isolation

Zenvo NG series, which achieves up to 97% efficiency in double conversion mode, utilise state-of-the-art technology and components to withstand fluctuation of input main voltage. In-built isolation transformer gives more reliability to NG series and overcome failure of customers equipments. Extra wide input voltage and frequency range effectively reduces the discharging period of battery, thus prolong battery life.



Exemplary Charging Capacity

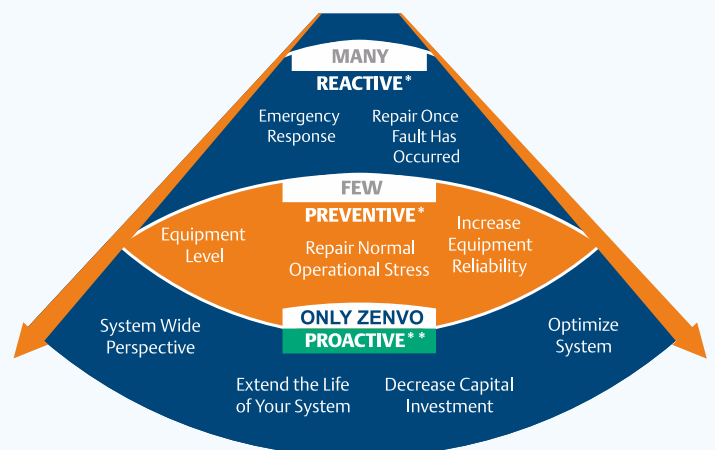
The powerful battery charger allows the reduction in battery recharging time. The backup time can be increased through cascaded connection of use of large capacity battery bank.



This means it will recharge the same battery approximately 1.4 times faster than a UPS with 3kW of charging power, or alternatively 2 times faster than UPS with 2kW of charging power. It can charge a battery of 1.4 to 2 times larger capacity (Ah) in the same amount of time.

Support

Zenvo Care program offers the best in-house service for Zenvo NG Series. Our customer support engineers have in - depth knowledge about Zenvo UPS to the core. Furthermore, this can be integrated into the existing data centre infrastructure and corresponding support strategy.



Technical Specification

DSP based Online UPS with Autobypass and SNMP port					
INPUT PFC 0.99					
TECHNOLOGY	Green UPS with Unity IPF	Power-conditioning with IT	Double conversion MPWM technology		
RATING	5KVA		6KVA	7.5KVA	10KVA
DC BUS	120-168 / 180-240 VDC		120/192 VDC	192 VDC	192/240 VDC
INPUT					
Input Voltage	230V AC 1Ø				
Input Voltage Window	170-270V				
Input Frequency	50Hz ± 10%				
Input PFC	100 % Load	0.99			
Input current harmonic distortion(THDi) on full load	< 7 %				
Power walk in	Soft start for 0-20 seconds power walk-in				
RECTIFIER					
Type	Unity PF with Boost topology*				
Note: The conventional PFC Online UPS with PF around 0.97 uses buck topology for converter and is highly susceptible for high voltage and generator change-over. It also has high failure rates in coastal areas where lightning is a common phenomenon.					
Voltage Regulation	(±) 1%				
Ripple Voltage	< 2%				
Converter Protection	Advanced Electronic Protection for device safety backed up with MCB's & fast acting fuses				
INVERTER					
Inverter Type	IGBT based MPWM with instantaneous Sinewave Control				
Power Factor	0.8				
Nominal Voltage	220VAC / 230VAC				
Regulation	(±) 1%				
Frequency	50 Hz ± 0.1Hz				
Waveform	True Sinewave				
Total Harmonic Distortion	Linear Load	< 2%			
	Non Linear Load	< 6%			
Transient Response	Remains within +/- 5% & recover to normal within 20 msec				
Over Load Capacity	100%	Continuous			
	125%	1 Minute			
Crest Factor	3:1				
Output current	17A	20A	26A	35A	
Mode of Operation	Designed for Continuous operation				
Isolation	True Online with complete galvanic isolation				
Inverter Protection	Advanced Electronic Protection for device safety backed up with MCB's & fast acting fuses, high speed pulse by pulse electronic device protection over voltage / under voltage protection, electronic over current trip				
BYPASS					
Manual Bypass	Provided				
Compatible / optional features					
Static / auto by-pass using relay (optional)	Auto bypass				
SNMP (optional)	SNMP port				
AC-AC efficiency	100 % load	>86 % To > 88 %			
ALARMS					
LED Indications (Single LED with multi function)	Input / Low / Output / Over Load / Battery Low				
User Friendly LCD Display shows the following parameters	Load On Mains / Load on Battery / Battery Low / Overload / UPS Fault				
	Input Voltage / Output Voltage / Load Current / Output Frequency / Battery Voltage / UPS Status				
BATTERY					
Battery Type	SMF / Tubular				
Charging Current Standard	up to 8 Amps				
PHYSICAL					
Enclosure Protection Grade	IP - 20				
Cooling	Forced Air				
Cable Entry	Back side bottom				
Dimension	5 KVA	6KVA	7KVA	10KVA	
Depth X Height X Width (in mm)	550 X 550 X 200			640 X 660 X 230	

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