NG PFC 330 Series
10KVA - 200KVA

ZENVO

NexGen SOLAR POWER Online UPS

Salient Features

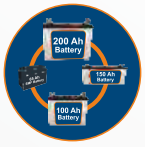
- Wide Input Voltage Window
- Power Factor Correction
- Compact Footprint
- Transformer Over Temperature Control
- Temperature Compensated Battery Charging
- Double Conversion UPS
- Auto bypass (optional)
- LCD Display
- SNMP

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 under standing.

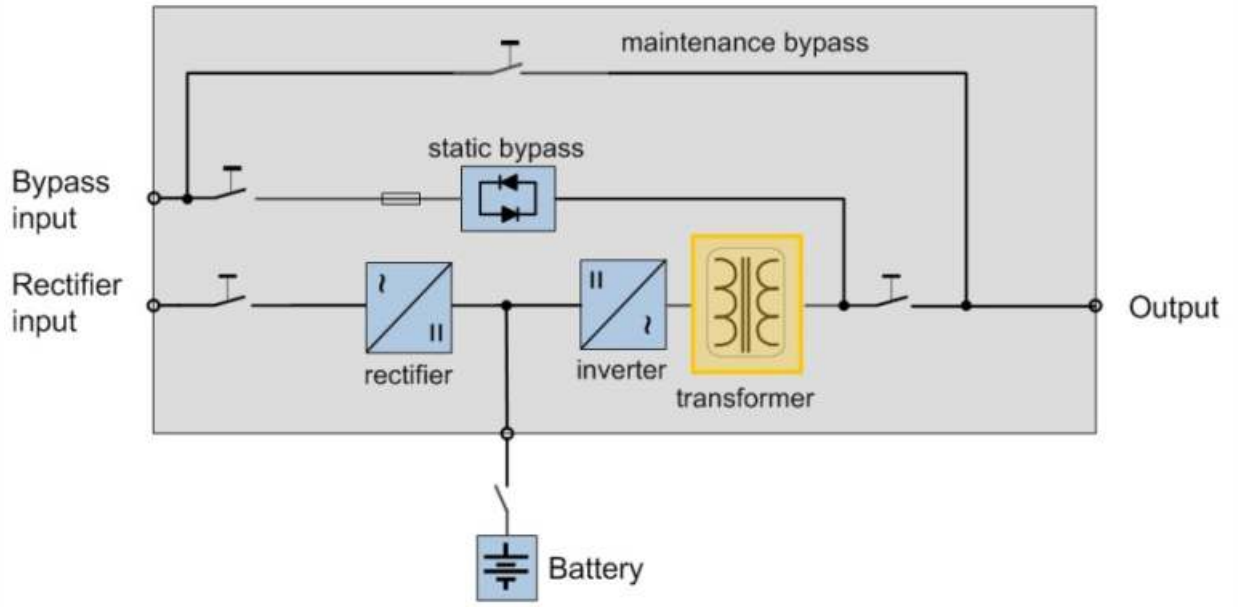
Wide Input Voltage Window :- By adapting to wide range of input voltages, the NG series avoid battery usage during minor power fluctuations, saving its capacity for times when utility power is completely lost.

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.

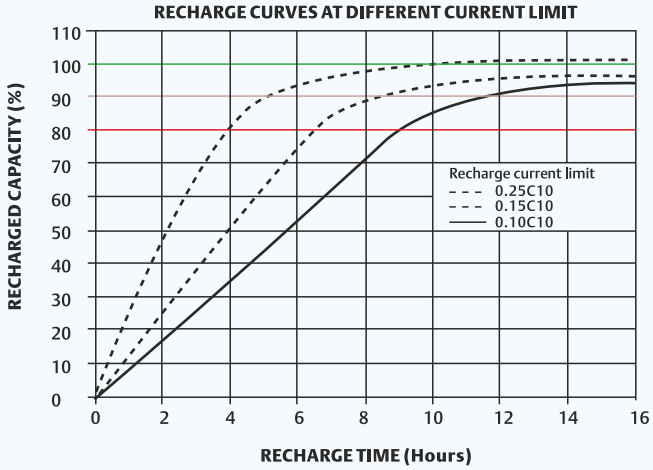
Advantage of Isolation

Zenvo NG series, which achieves upto 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

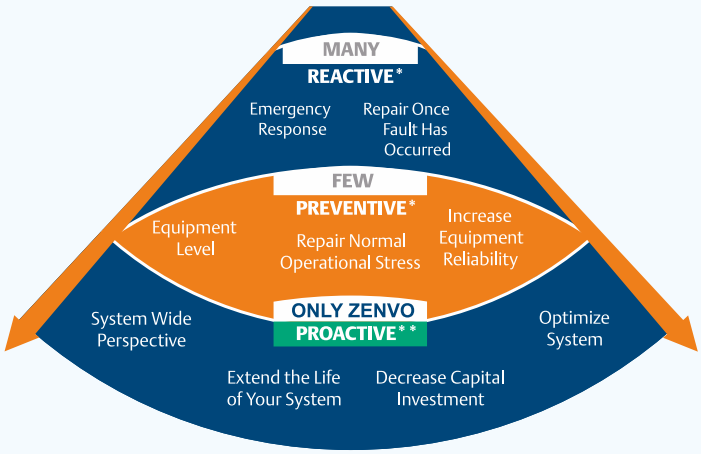
The powerful battery charger allows the reduction in battery recharging time. The backup time can be increased through cascaded connection of use of large capacity battery bank.



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

TECHNOLOGY	Double conversion Online with the latest MPWM technology using IGBT .				
RATING		10KVA	15KVA	20 / 30 / 40 / 60 / 80 / 100 / 120 / 150 / 200KVA	
DC BUS		240/360VDC	240VDC	360VDC	
INPUT					
Input Voltage		415V 3 Ø & N			
Input Voltage Window		330 - 470V			
Input Frequency		50Hz ± 10%			
Input PFC @ 100 % Load		> 0.95			
Power walk in		Soft start for 0-20 seconds power walk-in			
RECTIFIER					
Type		IGBT based full bridge			
Voltage Regulation		(±) 1%			
Ripple Voltage		< 2%			
Converter Protection		Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuse			
INVERTER					
Inverter Type		IGBT based MPWM with instantaneous Sinewave Control			
Power Factor		0.8 lag			
Nominal Voltage		400 V Ph- Ph :230V Ph- Neutral			
Regulation	Balanced Load	(±) 1%			
	Unbalanced Load	(±) 1%			
Unbalanced Load Phase Shift		120º ± 0.5º			
Frequency		50Hz ± 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			
	150%	5 Seconds			
Crest Factor		3:1			
Nominal Output Current per phase		10KVA - 11A / 15KVA - 17A / 20KVA -23A / 30KVA - 35A / 40KVA - 46A / 50KVA - 58A / 60KVA - 6 80KVA - 93A / 100KVA - 116A / 120KVA - 139A / 150KVA - 174A / 200KVA - 231A			
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/ MCCBs & fast acting fuse speed pulse by pulse electronic device protection over voltage / under voltage protection, electroni current trip			
BYPASS					
Manual Bypass		Provided			
Static bypass(Optional)		Optional			
EFFICIENCY					
Overall Efficiency @ 100 % load		> 86 % to 88 %			
BATTERY					
Battery Type		SMF/ TUBULAR			
RATING		10KVA to 200KVA			
Battery Voltage - 12 V (No. of Batteries)		20 - 30 No's			
Voltage		240 - 360V			
Battery Low advance warning at		11V / Battery			
Battery Low cut off at		10.5V / Battery			
Charging Current Standard		0 - 10A			
ALARMS		Input / Low / Fail / Output Overload / Over Temperature / Battery Low			
LED Indications (Single LED with multi function		Mains on / UPS On / Battery Low / Overload / UPS Trip			
User Friendly LCD Display shows the following parameters		Input Voltage / Output Voltage / Load Current / Output Frequency / Battery Voltage			
ENVIRONMENTAL					
Acoustic Noise level		<60db @ 1.5 meter			
Ambient Temperature		0 to 40 Deg C			
Storage Temperature		-10 to 70 Deg C			
Humidity		Up to 95% RH Non condensing			
Altitude		< 3000 Feet above sea level (without derating)			
Extreme climatic conditions		AC Environment is required if the temperature goes beyond the normal operating temperature			
PHYSICAL					
Enclosure Protection Grade		IP - 20			
Cooling		Forced Air			
Cable Entry		Front side bottom			
Testing Standard		As per IEC 62040 - 3			
Dimension		10KVA - 15KVA	20KVA - 30KVA	40KVA - 80KVA	100KVA - 120KVA	150KVA - 200KVA
Depth X Height X Width (in mm)		850 X 860 X 470	850 X 1130 X 470	1220 X 1310 X 690	1420 X 1310 X 690	1420 X 1560 X 770

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