



NUMAX ENERGY SOLUTIONS



Powering India's Process And Technology

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NUMAX ENERGY SOLUTIONS



ONLINE UPS



1PH-1PH ONLINE UPS - DOU SERIES, NX 900G4 SERIES

3PH-1PH ONLINE UPS - NX 800, NX 900G4 SERIES

3PH-3PH ONLINE UPS - NX 890 SERIES, NX 990 G4,G5 SERIES

MODULAR ONLINE UPS- NX 660 SERIES

Note: Isolation Transformer Optional

SERVO VOLTAGE STABILIZER



1PH-1PH, 3PH-3PH, SVL SERIES
"Air Cooled & Oil Cooled Available"

STATIC VOLTAGE STABILIZER



1PH-1PH-DS SERIES,
3PH-3PH-DS SERIES, DHS SERIES

HOME UPS



1PH-1PH HOME UPS DHU SERIES

SOLAR INVERTERS



NXHI SERIES

LITHIUM INVERTERS



NHU PLUS SERIES

ISOLATION TRANSFORMER



1PH-1PH, 3PH-3PH,
NX ISO SERIES

POWER PROTECTION DEVICE



TUBULAR BATTERIES



LITHIUM BATTERIES



NUMAX ENERGY SOLUTIONS

ABOUT US:-

NUMAX ENERGY SOLUTIONS is one of the reputed manufacturers of Power Electronics Products and service provider at Hyderabad.

NUMAX, since its inception in August 2010, has been offering "Total Power Quality Management Solutions" to its customers through Constant innovation, state of the art Research & Development, Design, manufacture and supply of a full range of power conditioning & power back-up products, services and solutions.

Understanding the importance of reliable service, **NUMAX offers 24/7 support** through a robust network of **150+ company-owned service centers** and **200+ trained field technicians** across **109+ cities** in India with over **50000+ installation & 20000+ Satisfied customers**.

NUMAX is serving Financial Institutions both Public Sector Banks, Co-operative Banks, Private Banks, ATM, Insurance Sector, Financial segment, Process Industries including Pharma, Healthcare & Hospitals, Small & Medium Businesses, Hospitality and Hotels, Media & Entertainment, Government & Infrastructure projects, Defense, Power Plants, Corporates, Research and Education Institutes.

SALES & SERVICE TEAM

It's the real fact that successful sale of any product depends upon Total Customer Satisfaction which can be achieved only by post- sales services to customer with Mean Time Before Failure (MTBF), least response time and Mean Time to Repair (MTTR). NUMAX has designed its products with MTBF of greater than 20000 Hrs. and response time to attend failure is within 4 to 6 hours and MTTR from 4 to 18 Hrs. Customer Service centers are closer to customer premises thus ensuring prompt response time.

All field technicians and engineers are fully factory trained by the Technical Professionals. They are let in the market only after through internal examination. We have our own Service Centres PAN India.

Company Credentials:

- ▶ BUREAU OF INDIAN STANDARDS for 'UPS', 'INVERTER' system.
- ▶ ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and ISO 27001:2013.
- ▶ NSIC, MSME, CE, RoHS.
- ▶ Certificate of achievement from TATA POWER SOLAR
- ▶ APPRECIATION CERTIFICATE from the Leprosy Mission Trust India.

NUMAX ENERGY SOLUTIONS

VISION & MISSION

VISION :

"TO BE A MARKET LEADER IN POWER QUALITY SOLUTIONS AND ENHANCE CUSTOMER SATISFACTION"

MISSION :

"SERVING CLEAN AND RELIABLE POWER TO CUSTOMER THROUGH THE WIDE RANGE OF INNOVATIVE NUMAX PRODUCTS AND SERVICES"

NUMAX PRODUCTS AND SERVICES:-

NUMAX ENERGY SOLUTIONS has vast product list of Power Conditioning Products and Services.

- ▶ **Online UPS Systems** - DSP controlled Double Conversion Online UPS system of 1 KVA to 500 KVA (Single & Three phase upto 3MW)
- ▶ **Static Voltage Regulators**-Rating from 5 KVA to 300 KVA (Single & Three Phase)
- ▶ **Servo Control Line Voltage Stabilizer** - Rating from 2 KVA to 2000 KVA (Single & Three Phase)
- ▶ **Double Wound Ultra Isolation Transformers**-Rating 0.5 KVA to 1000 KVA (Single & Three Phase)
- ▶ **Home and Industrial Inverters**-Rating from 0.6 KVA to 30 KVA with Solar Power as Optional
- ▶ Line Interactive 'UPS' system with In-built and external batteries from 650VA to 3 KVA rating
- ▶ AC to DC Rectifier, DC to DC Converters, Variable I.V Power Supplies
- ▶ Source Transfer Switches and Intelligent Power Distribution Systems
- ▶ Energy Storage Batteries - Brands like Luminous, Microtek, EXIDE, Amara raja and HBL in 12volts and 2 volts cells - Both in VRLA (SMF) and Tubular Flooded type with accessories & Numax Tubular Batteries.
- ▶ Solar PCU's - Roof Top Off-Grid and On-Grid
- ▶ Solar MPPT and PWM Charger Controller, Junction Box and Termination Box
- ▶ Solar PV Modules of Mono Crystalline and Multi Crystalline & Mono-PERC.
- ▶ Lithium Battery Packs
- ▶ Services Like AMC for all Power Conditioning Products which includes 3" party AMC also

NUMAX ENERGY SOLUTIONS

OUR MAJOR CLIENTELE:

Banking & Financial Sector

- Andhra Pradesh Grameena Vikas Bank
- Aryavart Bank
- Bank Of Baroda
- Bank of India
- Canara Bank
- Dhanalaxmi Bank
- District Co-Operative Central Bank
- ITI Financial Services Ltd
- Tata Communications payments Solutions Ltd
- United India Insurance Company
- Federal bank
- Gayathri Co-Operative Urban Bank
- [Hitachi Payment Services Pvt. Ltd](#)
- Indian Bank
- Indian Oversea Bank
- Karnataka Vikas Grameena bank
- Life Insurance Corporation of India
- Manappuram Finance Ltd
- Muthoot Fincorp Ltd
- New India Assurance
- Pochampalli Co-Operative Urban Bank
- Punjab National bank
- Rajdhani Co-Operative Bank
- Sapthagiri Grameena Bank
- State Bank of India
- SBI Life Insurance
- Telangana Grameena Bank
- Telangana State Co-Operative Apex Bank Ltd
- Equitas Small Finance Bank Ltd
- Union Bank of India

Educational Institutions

- Anurag Group Of Institution
- Army Public School
- Bharathiar University
- Doctutorials Edutech Pvt Ltd
- Indian Institute of Information Technology
- Indian Institute of Management
- Indian Institute of Technology
- JNTU
- National Institute of Electronics & Information Technology (NIELIT)
- National Institute of technology-Pan India
- Prathima Educational Society
- Sri Krishna Devaraya University

Pharmaceuticals, Infra & Industrial and Automation sector

- Ananta Pharmacy Distributors Pvt Ltd
- Aragen Life Sciences
- Anjana Aero Space
- Aurigene Pharmaceuticals Services
- Bayer corp Science Ltd
- Biocon Ltd
- Dupont Knowledge center
- Dr. Reddy's Laboratories
- GKB Rx lens Pvt Ltd
- Monsanto Holdings Pvt Ltd
- Dynamic tools Ltd
- Baba Techno crafts Manufacturers
- Shah Enterprises
- Orbit Bearings
- Megha Engineering Infrastructures Ltd
- Intonation International Research Laboratory
- Sai Suguna Aqua Products
- S V Pet Bottles
- Summit Marine Export Pvt Ltd
- SBL Energy
- SMS Ltd
- Omsree Builders
- Yes Technologies
- ZEN Technologies

NUMAX ENERGY SOLUTIONS

Corporate Sector

- ▶ Aditya Birla retail India Pvt Ltd
- ▶ Amara Raja
- ▶ Angle India Pvt Ltd
- ▶ Astra Microwave Products Ltd
- ▶ Bobby & Brothers Pvt Ltd
- ▶ Brinks Arya India Pvt Ltd
- ▶ B-Square Enterprises
- ▶ Fourth partner Energy Pvt Ltd
- ▶ Heritage foods
- ▶ Lokesh Machines Ltd
- ▶ Lotus Industries
- ▶ Mehfil Restaurants Pvt Ltd
- ▶ Neugrow Optics Pvt Ltd
- ▶ Premier Explosives
- ▶ Quality Electric Company
- ▶ Rain commodities
- ▶ Reliance Industries
- ▶ Skandhansha Infra
- ▶ Sree Interiors
- ▶ Stampede Capital Ltd
- ▶ Sunray Image Technologies Ltd
- ▶ Suguna Foods Ltd
- ▶ Taj Resorts
- ▶ Trendz Infotech
- ▶ Vertex Power Solutions Pvt Ltd
- ▶ ZEN Technologies Ltd

Hospital Sector

- ▶ Aarthi Hospital
- ▶ Basavatarakam Indo American Cancer Hospital & Research Institute
- ▶ ESIC-Chennai, Kerala, Bangalore
- ▶ BBR Hospitals
- ▶ KIMS
- ▶ L V Prasad Eye Institute
- ▶ Malla Reddy Narayana Multi Specialty Hospital
- ▶ Narayana Hospital
- ▶ R R Nursing Hime
- ▶ Shanmuga Hospital
- ▶ Vijaya Diagnostic Centre

Government Sector

- ▶ Airports Authorities of India
- ▶ Bharat Petroleum Corporation Ltd
- ▶ BSNL
- ▶ BHEL
- ▶ Chennai Port Trust
- ▶ Defense Research & Development Organization
- ▶ Department of Atomic Energy
- ▶ Department Of Post
- ▶ Food Corporation of India
- ▶ Hindustan Aeronautics Ltd
- ▶ Hindustan Petroleum Corporation Ltd
- ▶ Indian Air Force
- ▶ Indian Navy
- ▶ Indian Oil Corporation Ltd
- ▶ Indian Railways
- ▶ Indian Space Research Organization
- ▶ Oil & Natural Gas Corporation
- ▶ Research Centre Imart
- ▶ RailTel Corporation of India Ltd
- ▶ The Singareni Collieries Company Ltd
- ▶ Power Grid Corporation Of India Ltd
- ▶ Steel Authority of India Limited
- ▶ TSRTC

DS SERIES 5kVA~40kVA(1:1)

DSP Controlled IGBT Based
Static Voltage Stabilizer



Numax Energy Solutions Established in Year 2010 with 15 Years Experience in Power Conditioning & Energy Managements. Provides Innovative Solutions to Your Power Conditioning Needs.

Numax Static Voltage Stabilizer are Innovative Design Have set the Standard in the industry for product Design & Quality.

FEATURES

- ▶ Digital Signal Processor
- ▶ LCD Display for Parameters
- ▶ Overload Protection
- ▶ 1:10 ratio crest factor
- ▶ Natural Air Cooled
- ▶ High Efficiency
- ▶ Auto Bypass

APPLICATIONS

- ▶ CNC Machine Tools
- ▶ Injection Molding Machines
- ▶ Printing Machines
- ▶ Medical Equipment Food Processing Machines
- ▶ Textile Machines- Spinning, Weaving, Knitting,
- ▶ Embroidery, Garments, Manufacturing
- ▶ Domestic Application,, Home Appliance, Shops,
- ▶ Malls & Villas, All Industrial, Commercial,
- ▶ Residential Loads, Etc...



DS SERIES

Specifications



Model	DS51A/B/C	DS7.51A/B/C	DS101A/B/C	DS151A/B/C	DS201A/B/C	DS251A/B/C	DS301A/B/C	DS401A/B/C
Topology	OSP Controlled IGBT Based Static Voltage Stabilizer							
Phase Sequence	Single Phase to Single Phase							
Capacity	5KVA	7.5KVA	10KVA	15KVA	20KVA	35KVA	60KVA	40KVA
Input								
Nominal voltage	190-260/180-270/170-280 VAC							
Maximum rated input current Nominal Input Voltage 190V	26	39	53	79	105	132	158	211
Maximum rated input current Nominal input Voltage 180V	28	42	56	83	111	139	167	222
Maximum rated input current Nominal input Voltage 170V	29	44	59	88	118	147	176	235
Nominal frequency	47-53 Hz							
Input circuit breaker rating	32A 1P	40A 1P	63A 1P	100A 1P	125A 1P	160A 1P	160A 1P	225A 1P
Input circuit breaker rating	32A 1P	63A 1P	63A 1P	100A 1P	125A 1P	160A 1P	160A 1P	225A 1P
Input circuit breaker rating	32A 1P	63A 1P	63A 1P	100A 1P	125A 1P	160A 1P	200A 1P	260A 1P
Ac connection	Terminal block (L1n, Neutral and Ground wires) provided							
Output								
Nominal voltage	220/30/240 VAC. Settable							
Power efficiency	Typically over 99% (with 20-100% load conditions)							
Voltage regulation	+/-1%							
Maximum rated output current	22	33	43	65	87	109	130	174
Ac connection	Terminal block (L1n, Neutral and Ground wires) provided							
ENVIRONMENTAL								
Ambient temperature	0°C to +45°C, 10 to 90% RH, non-condensing							
Cooling method	Forced Air Cooled							
Display								
LCD Display	2 Line LCD Display, showing I/P, O/P Voltage, Load Percentage, Fault Annunciation, Event log (optional)							
Protections								
Standards & Safety	Designed to meet UL 60950-1 standards. Protection class IP 20							
OV/UV cut off with SPP	Electronic cut off circuit with graded time delay for High/Low/Missing Voltage							
Overload & Short Circuit Protection	CT based electronic Cutoff circuit with graded time delay set @110% of rated full load current							
Soft Switch-On	This feature ensure that output voltage is never higher than input voltage upon switch-on, before it commences full stabilization,							
Automatic bypass	Automatic bypass will be activated when there is a fault condition							
Surge Test Conditions	Per Class 2 Surge (combination wave)							
Surge let-through voltages	8X20 μ s 40 kA waveform. L-N < 460V							
Resetting Mode	Manual and Automatic Option Provided							
Physical								
Dimensions (WXLH in mm)	300 X 420 X 440				350 X 500 X 580			350 X 520 X 600
Weight (approx. in Kgs)	21	24	36	40	43	47	53	57
Mounting	Wheel Mounted with Breaks							

Specification are subject to change without any prior notice.
Note: Weight will be vary +/-5%

DS SERIES 5kVA~90kVA (3:3)

DSP Controlled IGBT Based
Static Voltage Stabilizer



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FEATURES

- ▶ Digital Signal Processor
- ▶ LCD Display for Parameters
- ▶ Overload Protection
- ▶ 1:10 ratio crest factor
- ▶ Natural Air Cooled
- ▶ High Efficiency
- ▶ Auto Bypass

APPLICATIONS

- ▶ CNC Machine Tools
- ▶ Injection Molding Machines
- ▶ Printing Machines
- ▶ Medical Equipment Food Processing Machines
- ▶ Textile Machines- Spinning, Weaving, Knitting,
- ▶ Embroidery, Garments, Manufacturing
- ▶ Domestic Application,, Home Appliance, Shops,
- ▶ Malls & Villas, All Industrial, Commercial,
- ▶ Residential Loads, Etc...



DS SERIES

Specifications



Model	DS53A/B/C	DS103A/B/C	DS153A/B/C	DS203A/B/C	DS303A/B/C	DS503A/B/C	DS753A/B/C	DS1003A/B/C
Topology	DSP Controlled IGBT Based Static Volatage Stabilizer							
Phase Sequence	Three Phase to Three Phase							
Capacity	5KVA	10KVA	15KVA	20KVA	30KVA	50KVA	75KVA	90KVA
Input								
Nominal voltage	340-460/ 320-480/ 300-500 VAC							
Maximum Rated Input Current @ Nominal input Voltage 340V	8	17	25	34	51	85	127	153
Maximum Rated Input Current @ Nominal input Voltage 320V	9	18	27	36	54	90	135	162
Maximum Rated Input Current @ Nominal input Voltage 300V	10	19	29	38	58	96	144	173
Nominal frequency	47 - 53 Hz							
Input Circuit Breaker Rating	10A 3P	32A 3P	32A 3P	40A 3P	63A 3P	100A 3P	160A 3P	160A 3P
Input Circuit Breaker Rating	10A 3P	32A 3P	32A 3P	40A 3P	63A 3P	100A 3P	160A 3P	200A 3P
Input Circuit Breaker Rating	16A 3P	32A 3P	32A 3P	40A 3P	63A 3P	100A 3P	160A 3P	200A 3P
Ac connection	Terminal block (L1in,L2in,L3in Neutral and Ground wires) provided							
Output								
Nominal voltage	400/415/420 VAC, Settable							
Power efficiency	Typically over 98 % (with 20 - 100% load conditions)							
Voltage regulation	+/- 1%							
Maximum rated output current	7	14	22	29	43	72	108	130
Ac connection	Terminal block (L1in,L2in,L3in Neutral and Ground wires) provided							
ENVIRONMENTAL								
Ambient temperature	0°C to +45°C, 10 to 90% RH non-condensing							
Cooling method	Forced Air Cooled							
Display								
LCD Display	4 Line LCD Display, showing I/P, O/P Voltage , load Percentage, Fault Annunciation, Event log(optional)							
Protections								
Standards & Safety	Designed to meet UL 60950-1 standards. Protection class IP 20.							
OV/UV cut off with SPP	Electronic cut off circuit with graded time delay for High/Low/Missing Voltage							
Overload & Short Circuit Protection	CT based electronic Cutoff circuit with graded time delay set @110%of rated full load current							
Soft Switch-On	This feature ensure that output voltage is never higher than input voltage upon switch-on, before it commences full stabilization.							
Automatic bypass	Automatic bypass will be activated when there is a fault condition(Optional)							
Surge Test Conditions	Per Class 2 Surge (combination wave)							
Surge let-through voltages	8 X 20 μs upto 40 kA waveform. L-N < 460V							
Resetting Mode	Manual and Automatic Option Provided							
Physical								
Dimensions (W X L X H in mm)	400 X 550 X 1000	420 X 600 X 1125				500 X 750 X 1150		
Weight (approx. in Kgs)	55	59	71	74	88	105	140	160
Mounting	Wheel Mounted with Breaks							

Specification are subject to change without any prior notice.
Note: Weight will be vary +/- 5 %

DS SERIES 100kVA~300kVA (3:3)

DSP Controlled IGBT Based
Static Voltage Stabilizer



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FEATURES

- ▶ Digital Signal Processor
- ▶ LCD Display for Parameters
- ▶ Overload Protection
- ▶ 1:10 ratio crest factor
- ▶ Natural Air Cooled
- ▶ High Efficiency
- ▶ Auto Bypass

APPLICATIONS

- ▶ CNC Machine Tools
- ▶ Injection Molding Machines
- ▶ Printing Machines
- ▶ Medical Equipment Food Processing Machines
- ▶ Textile Machines- Spinning, Weaving, Knitting,
- ▶ Embroidery, Garments, Manufacturing
- ▶ Domestic Application,, Home Appliance, Shops,
- ▶ Malls & Villas, All Industrial, Commercial,
- ▶ Residential Loads, Etc...



DS SERIES

Specifications



Model	DHS1003A	DHS1253A	DHS1503A	DHS2003A	DHS2503A	DHS3003A
Topology	DSP Controlled IGBT Based Static Volatage Stabilizer					
Phase Sequence	Three Phase to Three Phase					
Capacity	100KVA	125KVA	150KVA	200KVA	250KVA	300KVA
Input						
Nominal voltage	340-460/ 320-480/ 300-500 VAC			340~460		
Maximum Rated Input Current @ Nominal input Voltage 340V	170	212	255	340	425	509
Maximum Rated Input Current @ Nominal input Voltage 320V	180	226	271			
Maximum Rated Input Current @ Nominal input Voltage 300V	192	241	289			
Nominal frequency	47 - 60 Hz					
Input Circuit Breaker Rating	200A 3P	250A 3P	400A 3P	400A 3P	630A 3P	630A 3P
Input Circuit Breaker Rating	200A 3P	250A 3P	315A 3P			
Input Circuit Breaker Rating	200A 3P	250A 3P	315A 3P			
Ac connection	Terminal block (L1,L2,L3 Neutral and Ground) provided					
Output						
Nominal voltage	400/415/420 VAC, Settable					
Power efficiency	Typically over 98 % (with 20 - 100% load conditions)					
Voltage regulation	+/- 1%					
Maximum rated output current	144	180	217	289	361	433
Ac connection	Terminal block (L1,L2,L3 Neutral and Ground) provided					
ENVIRONMENTAL						
Ambient temperature	0°C to +45°C, 10 to 90% RH non-condensing					
Cooling method	Forced Air Cooled					
Display						
LCD Display	4 Line LCD Display, showing I/P, O/P Voltage , load Percentage, Fault Annunciation, Event log(optional)					
Protections						
Standards & Safety	Designed to meet UL 60950-1 standards. Protection class IP 20.					
OV/UV cut off with SPP	Electronic cut off circuit with graded time delay for High/Low/Missing Voltage					
Overload & Short Circuit Protection	CT based electronic Cutoff circuit with graded time delay set @110%of rated full load current					
Soft Switch-On	This feature ensure that output voltage is never higher than input voltage upon switch-on, before it commences full stabilization.					
Automatic bypass	Automatic bypass will be activated when there is a fault condition(Optional)					
Surge Test Conditions	Per Class 2 Surge (combination wave)					
Surge let-through voltages	8 X 20 μs upto 40 kA waveform. L-N < 460V					
Resetting Mode	Manual and Automatic Option Provided					
Physical						
Dimensions (W X L X H in mm)	550 X 850 X 1450		640 X 1070 X 1485			640 X 1100 X 1550
Weight (approx. in Kgs)	180	210	250	275	295	300
Mounting	Wheel Mounted with Breaks					

Specification are subject to change without any prior notice.
Note: Weight will be vary +/- 5 %

Isolation Transformer

Capacity Range upto 1500 kVA, 3 Ph



Technical Specifications:

System Connections	: Delta/Star
Input Voltage	: 415V 3 Phase
Output Voltage	: 415V or 200V 3 Phase
Ratios	: 1:1 and 2:1
Regulation	: Better than 3.5%
Power Factor	: 0.75 Lead to 0.75 Lag
Di-electric Strength	: 3KV for 60 sec
Insulation Resistance	: Better than 1000Mega Ohms
Coupling Capacitance	: 0.1 PF for 80db
Leakage Current	: Less than 20 Micro Amps
Common Mode Attenuation:	80 db/100 db
Construction Standards	: As per IS 2026 Part I & II, 15 11171
Type of Execution	: Closed Type
Operating Temperature.	: 0°C to 45° C
Type of Cooling	: Natural air/Forced air Oil cooled (Optional)

Most Suitable for

- CNC Machines
- Textile Machineries
- Oil & Vanaspathi Plants
- Bio Medical Equipments
- Cell Phone Networks
- Large Computer Installations
- Printing Machineries
- Scientific Equipments
- Garment Equipments etc and many more.



Input	Output	Rating Available
415 V AC 3 Ph 415 V AC 3 Ph	230 V AC 3 Ph 230 V AC 3 Ph	} 3 KVA 1 PH and upto 1500 KVA 3PH
415 V AC 3 Ph 220 V AC 3 Ph	230 V AC 3 Ph 110 V AC 3 Ph	

Eliminates stresses that come from normal electrical transients
Meet stringent clean power requirements of the sophisticated/
Sensitive equipments
Reduces the effects of power line problems like noise, Spikes,
Surges, Transients and Neutral to minimum

DSP Controlled Servo Stabilizer (Single Phase)

Capacity Range upto 25 kVA, 1 Ph

Technical Specifications

Input Voltage Range	: 170-270V AC, 50Hz
Output Voltage	: 230V AC 50 Hz 1 Phase
Operating Frequency	: 47 to 53 Hz
Output Regulation	: +1%
Correction Speed	: 35V/sec
Line Regulation	: +1%
Load Regulation	: +1%
Wave-form Distortion	: Nil
Power Factor Effect	: Nil
Output Wave-form	: True reproduction of input
Type Of Cooling	: Natural Air-cooled
System Construction	: As per 15:9815
Efficiency	: 98.5%
Response Time	: 10 milli sec.
Servo Motor Drive Motor	: rugged at step synchronous
Enclosure	: IP32

Protections

High Voltage Protection	} with Relay / Contactor
Low Voltage Protection	
Overload Protection	} with MCB
Short Circuit Protection	

Indication on Front Panel

- Input ON
- Output ON
- Output CUT-OFF
- Input LOW
- Input HIGH
- 0-300 V 72 sq. mm analog meter to read output voltage



Capacity	Width	Depth	Height	Weight/Kgs
1 KVA	280	310	300	16
2 KVA	280	310	300	18
3 KVA	300	430	300	28
5 KVA	300	430	300	33
7.5 KVA	360	470	310	55
10 KVA	360	470	310	60
15 KVA	440	470	800	100

Input Connection

- 1 & 2 Kva - Power Card with Plug Top 3 KVA to 10 KVA with
- Connectors Above 10 KVA nut & bolt termination

Output Connection

- 1&2 KVA-Sockets
- 3 KVA to 10 KVA with Connectors
- Above 10 KVA nut & bolt termination

DSP Controlled Voltage Stabilizer 3 Phase Air & Oil Cooled

Capacity Air Cooled 250 KVA,
Oil Cooled 3000 KVA



Provides perfectly stable output even under severe conditions of unbalance Voltage conditions. Ideal to Protect the electrical and electronic equipments from high and low voltages.

Technical Specifications:

Input Voltage Range	: 300-460V/340-480V/360-460V AC 3 Ph
Output Voltage (3 Ph)	: 415V AC
System	: Unbalanced 4 wire: RYBN
Connections	: Star
Operating Frequency	: 47 to 53 Hz
Output Voltage Regulation	: +1% (No Load)
Output Voltage Regulation	: +1% (Full Load)
Overload Capacity	: 120%
Correction Rate	: 60/30/25V per Sec-3 Phase
Waveform Distortion	: Nil
Output Waveform	: True Reproduction of Input
Insulation	: Class F
Short Circuit Period & Percentage	: 300% for 250 milli sec.
Normal Operation Temperature	: 0°C to 45° C
Climate Conditions	: 90% Rh Max. Non Condensing at 35°C
Type of Cooling	: Natural air cooled up to 600 KVA
Mode of System	: Fully Automatic
System Construction	: As per IS: 9815-1994



Sailent Features

- ▶ Quick response time 10 milli sec (half a cycle)
- ▶ Very high efficiency above 98%
- ▶ Excellent regulation as high as +/- 0.5%
- ▶ "Micro Controller" controlled system
- ▶ Wide input range of operations & high speed of correction

Metering On LCD Display

- ▶ 3ph Input voltage ph to ph and ph to Neutral
- ▶ 3ph Output voltage ph to ph and ph to Neutral
- ▶ System Frequency
- ▶ Output Current on each phase

Protections

- ▶ Single Phasing Prevention
- ▶ Input Short Circuit Protection with MCB/MCCB
- ▶ Input Over Load Protection with MCB/MCCB
- ▶ Output Low Voltage Protection
- ▶ Output High Voltage Protection

Indications

- ▶ Mains input on 3 LED Indications,
- ▶ 3ph output on indication

Indications in LCD Display

- ▶ Input High and Input low
- ▶ Output on Indication
- ▶ Output high cutoff and output Low cutoff

Programmable Parameters

- ▶ Output voltage set (210-245V)
- ▶ Output Low Voltage Cutoff
- ▶ Output High Voltage Cutoff
- ▶ Input Low on LCD Display
- ▶ Input High on LCD Display
- ▶ Sensitivity/Regulation
- ▶ Over Load Cutoff
- ▶ CT full scale

Programmable Controls

- ▶ Display Scrolling - Auto / Manual
- ▶ Start/Stop Buttons

Menu/Start/Stop / Reset / Log Button

Very Important For CSD Analysis Problems

Optional: Out Door Model, Residential Model Available

Programmable Control Timings

- ▶ Over load Cutoff Time
- ▶ Auto Restart Time
- ▶ On & Off Delay Time
- ▶ Data Log: Last 100 fault events log with Date & Time stamp and works on FIFO basis.
- ▶ Residential Model also available



MOBEL	DSS75	DSS100	DSS250	DSS500	DSS750	DSS1000	DSS2000	DSS3000
Rated Capacity	75KVA	100KVA	250KVA	500KVA	750KVA	1000KVA	2000KVA	3000KVA

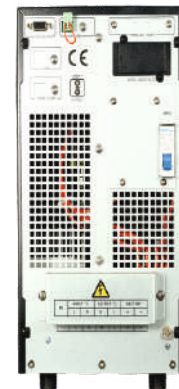
Online UPS DOU Series

1kVA 10KVA (1:1)



High Charging capability: 2A/4A/6A/8A/10A/12A selectable (standard), 14A/16A/18A/20A/22A/24A selectable (options) Standard configuration with output isolation transformer Superior protection (surge, short-circuit, overvoltage, undervoltage, overcharge, reverse battery protection etc.) Advanced communications: RS232 and USB ports (standard), SNMP, dry contacts and Rs485 (options) Other Options (parallel kit, input isolation transformer, bypass isolation transformer and harmonic suppressor) Static Bypass Switch Available, Manual Bypass Optional

DSP (Digital Signal Processors) Technology
Suitable for all kinds of loads (resistive, inductive and non Linear loads etc)
High overload capability (upto 150%)
Bypass dual DSP control design to enhance more reliability
Supports dual input, hot standby in series
Redundant & parallelable with advance parallel current-sharing control technology
Cold start and mains start function
Generator Compatible
IGBT Inverter and Rectifier



Rear Panel

- ▶ EPO
- ▶ USB
- ▶ Rs232
- ▶ Parallel Port (Optional)
- ▶ 6NMP (Optional)
- ▶ fan
- ▶ Breaker
- ▶ Terminal
- ▶ Battery Connector
- ▶ Fuse
- ▶ Input



Online UPS DOU Series

Specifications



MODEL	DOU1K	DOU2K			DOU3K		DOU5K	DOU6K	DOU10K
Capacity	1kVA/kW	2kVA/kW			3kVA/kW		5kVA/kW	6kVA/kW	10kVA/kW
Nominal Voltage	220/ 230 / 240 VAC (1Ph + N + PE, 3 wire)								
Operating Voltage range	110V~ 300V AC @ 50% Load/140V - 300VAC @ Full Load								
Operating Frequency range	50 / 60 Hz ± 10% (Auto Sensing)								
Power factor	>0.99								
Output Voltage/Power factor	220 / 230/ 240 Vac/ ± 1% / 1 Unity Pf								
Output frequency	Auto sensing 50/60 Hz ± 1 ~ 10% Sync Mode (Configurable), 50/60 Hz ± 1 Hz Battery mode								
Harmonic distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)								
Crest factor	3:1								
Efficiency	Up to 94% Dual Conversion Mode, 99% ECO mode								
Waveform	Sinusoidal								
BATTERY									
DC voltage	36V	48V	72V	96V	72V	96V	120-240V Configurable		
Charger	6.5 - 13A Configurable								
Typical Recharge Time	8 - 12 Hours (90% of full capacity)								
SYSTEM FEATURES									
LCD Indications	Input Voltage/Frequency, Output Voltage/Frequence, Battery Voltage, Load Watt/VA and %, Inverter Temperature, Operation Mode such as "On Line", "ON Batt" or On "Bypass", Fault Codes, Battery & Load Bar graph,Input Current, Output Current, Battery current								
LED Indications	Normal Operation, Bypass, Abnormal, Fault and Battery Mode								
Alarms/Protection	Batt. Low, DC High, Inverter Under/Over Voltage, UPS over Load, Short Circuit, Fan Failure and UPS fault,Transient surge, Input & Output Fuse.								
Overload Capability	≤ 125% for 10 min, >125-150% for 1 min, >150% for 200ms								
Transfer Time	AC to Battery: 0ms, Inverter to Bypass : 4ms (Typical)								
ENVIRONMENTAL									
Temperature	Operating: 0 ~ 45°C, Storage:- 10°C ~ 55°C								
Humidity/Altitude	0~ 95% RH (non-condensing) / <1500M								
Noise / Cooling	< 55 Db / Forced air Cooling								
PHYSICAL									
Dimensions (W x D x H) (mm)	144x400x215	192x469x399					220x481x438		
Net weight (kg)	6	10.7	10.8	11.2	10.8	11.2	17	18	20
STANDARDS									
Quality	ISO 9001:2015,ISO 140001:2015, BIS								
Safety/ IP Rating	IEC/EN62040-1/ IP20 / Ip21								
EMC/Performance	IEC/EN62040-2; IEC/EN62040-3, Complying to CE								
COMMUNICATION INTERFACE									
Standard	RS-232								
Optional	SNMP / ModBus / Dry Contact / USB / RS-485								
Monitoring Software	NetAgent utility v5.8/UPSilon 2000								

Specifications are subject to change without any prior notice.

Note: With Isolation Transformer, UPS Dimensions & Weight will be Changed.

Online UPS Nx800

10kVA-30kVA (3:1) PF 0.8

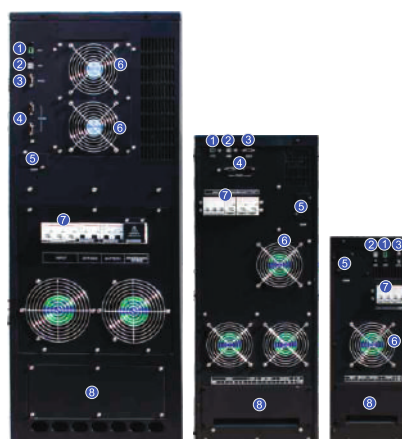


FEATURES

- ▶ Single/single-phase, three/single-phase models with on-line double conversion technology.
- ▶ DSP (Digital Signal Processors) technology
- ▶ Suitable for all kinds of loads (resistive, inductive and non-linear loads etc).
- ▶ High overload capability (up to 150%)
- ▶ Bypass dual DSP control design to enhance more reliability
- ▶ Supports dual input, hot standby in series
- ▶ Redundant & parallelable with advanced parallel current-sharing control technology
- ▶ Cold start and mains start function
- ▶ High charging capability: 2A/4A/6A/8A/10A/12 A selectable (standard), 14 A/16 A/18A/20A/22 A/24 A selectable (options)
- ▶ Standard configuration with output isolation transformer
- ▶ Superior protection (surge, short-circuit, overvoltage, undervoltage overcharge, reverse battery protection etc.)
- ▶ Advanced communications: RS232 and USB ports (standard), SNMP, dry contacts and RS485 (options), wifi card (Optional).
- ▶ Other options (parallel kits, input isolation transformer, bypass isolation transformer and harmonic suppressor)
- ▶ IGBT Inverter

Rear Panel

1. EPO
2. USB
3. RS232
4. Parallel port (optional)
5. SNMP (optional)
6. Fan
7. Breaker
8. Terminal



Online UPS Nx800

Specifications



MODEL	Nx810 (3:1)	Nx815 (3:1)	Nx820 (3:1)	Nx830 (3:1)
Capacity	10 kVA / 8 kW	15 kVA / 12 kW	20 kVA / 16 kW	30 kVA / 24 kW
INPUT				
Input wiring	Three-phase five-wire (3Φ+ N + PE)			
Rated voltage	380 / 400 / 415 Vac			
Voltage range	285 ~ 475 Vac			
Rated frequency	50 / 60 Hz			
Frequency range	40 ~ 70 Hz			
Bypass voltage range	± 25% (settable)			
OUTPUT				
Output wiring	Single-phase three-wire (1Φ+ N + PE)			
Rated voltage	220 / 230 / 240 Vac			
Output voltage regulation	± 1%			
Rated frequency	50 / 60 Hz (settable)			
Output frequency regulation	50 / 60 Hz ± 0.1 Hz in battery mode			
Waveform	Sinusoidal			
Power factor	0.8			
Voltage distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)			
Crest factor	3:1			
Overload	105% ~ 125% for 10 min, 125% ~ 150% for 1 min, 150% ~ 200% for 200 ms, > 200% for 100 ms			
BATTERIES				
DC voltage	192 Vdc			
Number of batteries	12 V × 16 pcs			
Charging voltage	216 Vdc			
EOD	168 Vdc			
Charging current	Default 8 A (2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable)			
SYSTEM				
Max. number of parallel connections	2			
Protections	Short-circuit, overload, overvoltage, undervoltage, low battery, overtemperature			
Communications	RS232 / USB (standard); RS485 / SNMP / dry contacts (optional)			
OTHERS				
Operating temperature	0 ~ 40℃			
Storage temperature	– 25℃ ~ 55℃ (without batteries)			
Relative humidity	0 ~ 95% (non-condensing)			
Altitude	≤ 1000 m (derating 1% for each additional 100 m)			
IP rating	IP 20			
Noise level at 1 m	< 60 dB			
Dimensions (W×D×H) (mm)	310 × 600 × 880	400 × 815 × 1100		
Packaged dimensions (W×D×H) (mm)	430 × 710 × 1080	525 × 925 × 1305		
Net weight (kg)	140	210	240	280
Gross weight (kg)	153	225	255	295

All specifications subject to change without notice.

Custom-made specifications are acceptable.

This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems.

For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.

Online UPS Nx890A

10 kVA ~ 120 kVA (3:3) PF 0.9



FEATURES

- ▶ Online double-conversion with full DSP control
- ▶ IGBT inverter with output isolation transformer
- ▶ 100% unbalance load capability
- ▶ Output power factor 0.9
- ▶ Generator compatible
- ▶ Support battery cold start auto-restart when mains power is restored
- ▶ ECO mode operation for energy saving
- ▶ Superior protection
- ▶ 5.7 inches LCD touch screen, friendly human & machine interface
- ▶ Front access make maintenance and replacement simplified (60~120 kVA)
- ▶ Intelligent self-diagnosing function, all kinds of failure protection, Large capability of history records storage
- ▶ High MTBF (> 200,00 h) Low MTTR (< 0.5 h)
- ▶ Standard emergency power off (EPO)
- ▶ Standard Rs232. Rs485, dry contacts communication port
- ▶ Optional SNMP communication port
- ▶ Optional N+X redundancy parallel up to 6 units
- ▶ Optional input filter to improve input power factor
- ▶ IGBT Inverter



Online UPS Nx890A

Specifications



MODEL	Nx8910	Nx8915	Nx8920	Nx8930	Nx8940	Nx8960	Nx8980	Nx89100	Nx89120
Capacity	10 kVA / 9 kW	15 kVA / 13.5 kW	20 kVA / 18 kW	30 kVA / 27 kW	40 kVA / 36 kW	60 kVA / 54 kW	80 kVA / 72 kW	100 kVA / 90 kW	120 kVA / 108 kW
INPUT									
Input wiring	Three-phase five-wire (3 Ø + N + PE)								
Rated voltage	380 / 400 /415 Vac								
Voltage range	285 ~ 475 V								
Rated Frequency	50/60 Hz								
Frequency range	(50 / 60) ± 5 Hz								
Power factor	= 0.95 (with Filter)								
Delayed start of rectifier	10 s (1 ~ 300 settable)								
Bypass voltage range	± 20% (settable)								
OUTPUT									
Output wiring	Three-phase five-wire (3 Ø + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Output Voltage regulation	± 1%								
Output Frequency regulation	50/60 Hz ± 0.1% Hz in battery mode								
Waveform	Sinusoidal								
Power factor	0.9								
Voltage distortion (THDv)	= 1% (linear load); = 5% (non-linear load)								
Crest Factor	3:1								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min								
BATTERIES									
DC Voltage	Lead acid battery: 360 Vdc Lithium iron phosphate battery : 384 Vdc								
Number of battery	Lead Acid battery : 12 V x 30 pcs (support 28 ~ 32 pcs) Lead Acid battery : 2 V x 180 pcs (support 168 ~ 192 pcs) Lithium iron phosphate battery : 3.2 V x 120 pcs (support 112/120 pcs)								
Charging current	Charging rate (settable) x battery capacity (settable) x number of battery groups (settable)								
SYSTEM									
Efficiency	In Line mode: Max. 93%; ECO mode: = 98%								
Max. number of parallel connections	6								
Protections	Short-circuit, overload, overtemperature,battery low voltage,overvoltage,undervoltage and fan failure								
Communications	RS232 / RS485 / dry contacts (standard), SNMP (optional)								
EMI	EN62040-2								
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4-(EFT) IEC61000-4-5 (surge)								
OTHERS									
Operating temperature	0°C ~ 40°C								
Storage temperature	-25°C ~ 55°C (without batteries)								
Relative humidty	0% ~ 95% (non-condensing)								
Altitude	= 1000 m (derating 1 % for each additional 100m)								
IP rating	IP 20								
Noise level at 1 m	65 dB								
Dimensions (WxDxH) (mm)	400 x 800 x 1100					600 x 700 x 1500	700 x 800 x 700		
Packaged dimensions (WxDxH) (mm)	490 x 920 x 1300					700 x 800 x 1650	800 x 900 x 1850		
Net weight (kg)	158	165	175	210	260	460	590	630	690
Gross weight (kg)	200	207	217	252	302	480	620	660	720

All specifications are subject to change without notice.

Custom-made specifications are acceptable.

This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems.

For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.

Online UPS Nx890B

80 kVA ~ 500 kVA (3:3) PF 0.9



Nx890 series UPS 80-500 kVA provide maximum protection and power quality for mission critical loads, including data centers, Industrial Processes, telecommunications, security and electro-medical systems. It is on-line double conversion UPS with IGBT based 3-level PWM rectifier technology, featured with high input power factor (> 0.99), low THDi, high efficiency and built-in output isolation transformer.

FEATURES

- ▶ Online double-conversion with DSP control
- ▶ Latest IGBT rectifier technology, high input power factor (> 0.99) and low THDi ($\leq 3\%$)
- ▶ High efficiency even at light loads
- ▶ Strong mixed load capacity and high overload capacity
- ▶ Compact and small footprint
- ▶ Unique ventilation design
- ▶ Batteries are directly connected directly to the bus, improving the impact resistance of UPS output
- ▶ Output isolation transformer using DZnO winding makes strong capability with unbalanced loads
- ▶ Input and Output are completely isolated for great security
- ▶ Simulated modular design makes maintenance easy and quick
- ▶ High MTBF ($> 200,000$ h)
- ▶ Low MTTR (< 0.5 h)
- ▶ Front accessible maintenance and installation against wall allowed
- ▶ Bottom and sides cable entry compatible
- ▶ Generator compatible.
- ▶ Intelligent self-diagnosing function, superior failure protection, large capability of history records storage
- ▶ Optional N+X redundancy parallel upto 6 units
- ▶ IGBT Inverter and Rectifier



Online UPS Nx890B

Specifications



MODEL	Nx8980	Nx89100	Nx89120	Nx89160	Nx89200	Nx89250	Nx89300	Nx89400	Nx89500
Capacity	80 kVA / 72 kW	100 kVA / 90 kW	120 kVA / 108 kW	160 kVA / 144 kW	200 kVA / 180 kW	250 kVA / 225 kW	300 kVA / 270 kW	400 kVA / 360 kW	500 kVA / 450 kW
INPUT									
Input wiring	Three-phase five-wire (3 Ø + N + PE)								
Rated voltage	380 / 400 /415 Vac								
Voltage range	304 ~ 346 V (derating 10%), 346 ~ 456 V (full load)								
Rated Frequency	50/60 Hz								
Frequency range	(50 / 60) ± 5 Hz								
Power factor	≥ 0.99								
Total harmonic distortion (THDi)	≤ 3 %								
Delayed start of rectifier	10 s (1 ~ 300 settable)								
Bypass voltage range	± 20% (settable)								
OUTPUT									
Output wiring	Three-phase five-wire (3 Ø + N + PE)								
Rated voltage	380 / 400 / 415 Vac								
Output Voltage regulation	± 1%								
Output Frequency regulation	50/60 Hz ± 0.1% Hz in battery mode								
Waveform	Sinusoidal								
Power factor	0.9								
Voltage distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)								
Crest Factor	3:1								
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10 min								
BATTERIES									
DC Voltage	Lead acid battery: 600 Vdc Lithium iron phosphate battery : 614.4 Vdc								
Number of battery	Lead Acid battery : 12 V x 50 pcs (support 48 ~ 52 pcs) Lead Acid battery : 2 V x 300 pcs (support 288 ~ 312 pcs) Lithium iron phosphate battery : 3.2 V x 192 pcs (support 192/208 pcs)								
Charging current	Charging rate (settable) x battery capacity (settable) x number of battery groups (settable)								
SYSTEM									
Efficiency	Line mode ≥ 92% ECO mode ≥ 97%			Line mode ≥ 94% ECO mode ≥ 98%					
Max. number of parallel connections	6								
Protections	Short-circuit, overload, overtemperature,battery low voltage,overvoltage,undervoltage and fan failure								
Communications	Standard configuration : RS232, RS485, dry contacts Optional configuration: SNMP card, temperature compensation, SMS alarms								
Display	5.7 inches LCD touch screen								
OTHERS									
Operating temperature	0°C ~ 40°C								
Storage temperature	-25°C ~ 55°C (without batteries)								
Relative humidty	0% ~ 95% (non-condensing)								
Altitude	≤ 1000 m, Above 1000 m, derating 1% for each additional 100 m								
IP rating	IP 20								
Noise level at 1 m	≤ 65 dB							≤ 70 dB	
Dimensions (WxDxH) (mm)	800 x 800 x 1800			800 x 860 x 1700	1210 x 860 x 1950			2380 x 860 x 1950	
Packaged dimensions (WxDxH) (mm)	900 x 900 x 2050			900 x 1000 x 1950	1300 x 1000 x 2200			1300 x 1000 x 2200 (x2)	
Net weight (kg)	580	630	680	790	1135	1275	1355	2090	2300
Gross weight (kg)	630	680	730	840	1200	1340	1420	2200	2410

All specifications are subject to change without notice.

Custom-made specifications are acceptable.

This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems.

For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.

Online UPS Nx900 G5

10 kVA ~ 20 kVA (3:1/1:1) PF 1.0



FEATURES

- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range (190-499 Vac) and frequency range (40-70 Hz)
- 50/60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input/60 Hz output or 60 Hz input/50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 10-20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 10 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating/ equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Isolation Transformer
- IGBT Inverter and Rectifier

REAR PANEL

- RS232
- EPO
- Parallel Port (optional)
- USB (optional)
- Temperature Detection (optional)
- Intelligent Slot
- Reserved: for manual bypass or battery breaker or outlets etc.
- Fans
- Bypass Breaker
- Input Breaker
- GND
- Terminals and cover



- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

AVAILABLE OPTIONS

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms



10 kVA(H)

15/20 kVA(H)

10 kVA(S)



Online UPS Nx900 G5

Specifications



MODEL	Nx9010 (3:1)		Nx9015 (3:1)		Nx9020(3:1)	
Capacity	10 kVA / 10 kW		15 kVA / 15 kW		20 kVA / 20 kW	
INPUT						
Input wiring	Three-phase five-wire (3Φ + N + PE)					
Rated voltage	380 / 400 / 415 Vac					
Voltage range	190 ~ 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 Vac (no derating)					
Rated frequency	50 / 60 Hz (auto-sensing)					
Frequency range	40 ~ 70 Hz					
Power factor	≥ 0.99					
Bypass voltage range	- 40% ~ +15% (settable)					
Total harmonic distortion (THDi)	≤ 5%					
OUTPUT						
Output wiring	Single-phase three-wire (1Φ + N + PE)					
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac					
Voltage regulation	± 1%					
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode					
Waveform	Sinusoidal					
Power factor	1					
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)					
Crest factor	3:1					
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min,126% ~ 150% for 30 s					
BATTERIES						
DC voltage	120 Vdc (120 ~ 240 Vdc settable)					
Number of battery	10 pcs (10 ~ 20 settable)					
Inbuilt battery (standard model)	12 V / 9 Ah×10	/		/		
Charging current	Standard model: 1 A; Long time model: 5 A (default) , 1 ~ 5 A settable; 10 A (optional)					
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery					
SYSTEM						
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode					
Transfer time	0 ms					
Protections Max. number of parallel	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure					
connections	4					
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)					
Display	LCD + LED					
OTHERS						
Operating temperature	0℃ ~ 40℃					
Storage temperature	-25℃ ~ 55℃ (without battery)					
Relative humidity	0 ~ 95% (non-condensing)					
Altitude	≤ 1000 m, derating 1% for each additional 100 m					
IP rating	IP 20					
Noise level at 1 m	≤ 58 dB					
Dimensions (W × D × H) (mm)	191 × 495 × 711 (S) 191 × 495 × 350 (H)		191 × 495 × 515 (H)			
Packaged dimensions (W × D × H) (mm)	310 × 685 × 941 (S) 318 × 617 × 475 (H)		285 × 593 × 618 (H)			
Net weight (kg)	64 (S), 18.5 (H)		26.5 (H)			
Gross weight (kg)	72 (S), 20 (H)		28 (H)			

S means standard model; H means long time model.
All specifications are subject to change without notice.
Note: With Isolation Transformer, UPS Dimensions & Weight will be Changed.

Online UPS Nx990 G5

10 kVA ~ 60 kVA (3:3) PF 1.0,
(3:1) Configurable



FEATURES

- ▶ Advanced dual-core DSP control technology and 3-level technology
- ▶ Active power factor correction (APFC), input power factor up to 0.99
- ▶ System efficiency is improved to 95%, energy saving rate is doubled
- ▶ Output power factor 1.0.
- ▶ Dual input design, supporting independent bypass
- ▶ Advanced digital and parallel technology, providing higher reliability than single system
- ▶ Wide input voltage range
- ▶ 50/60 Hz auto-sensing frequency
- ▶ 50/60 Hz frequency conversion mode
- ▶ Work efficiency up to 98% in ECO mode
- ▶ Fan speed varies intelligently with load, reducing noise and extending its service life
- ▶ Conformal coating technology to make UPS operate in harsh environment for a long time
- ▶ Flexible battery configuration setting, selectable battery numbers: 32-40 pcs
- ▶ Digitally controlled charger (Max. 10 A)
- ▶ Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- ▶ Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- ▶ Compact internal layout, small footprint
- ▶ 5 inches LCD colorful touch screen, friendly human & machine interface
- ▶ Powerful background software for parameters configuration and online upgrade
- ▶ Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, dry contacts, SNMP card, Wi-Fi card and GPRS card
- ▶ Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- ▶ Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life.
- ▶ Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- ▶ Standard RS232, USB, RS485, EPO, Dry contacts, Parallel port
- ▶ Optional SNMP card, Wi-Fi card, GPRS card, SMS alarms
- ▶ Isolation Transformer As Optional.
- ▶ IGBT Inverter and Rectifier



Online UPS Nx990 G5

Specifications



MODEL	Nx9910		Nx9915	Nx9920	Nx9930	Nx9940	Nx9960
Capacity	10 kVA / 10 kW		15 kVA / 15 kW	20 kVA / 20 kW	30 kVA / 30 kW	40 kVA / 40 kW	60 kVA / 60 kW
INPUT							
Rated voltage	380 / 400 / 415 Vac (L-L)						
Voltage range	304~478Vac (L-L), full load 228V~304Vac (L-L), load decrease linearly according to the min phase voltage						
Rated frequency	50 / 60 Hz (auto-sensing)						
Frequency range	40 ~ 70 Hz						
Power factor	> 0.99						
Bypass voltage range	Selectable, default -20%~+15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%						
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz						
Total harmonic distortion (THDi)	<3% (full linear load)						
Bypass overload	125%: long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms						
OUTPUT							
Rated voltage	380 / 400 / 415 Vac (L-L)						
Voltage regulation	±1% (full linear load)						
Frequency	Synchronized with utility in mains mode, 50/60 Hz ±0.1% in battery mode						
Waveform	Sinusoidal						
Power factor	1						
Total harmonic distortion (THDv)	<1% (full linear load) <3% (full non-linear load according to IEC/EN62040-3)						
Crest factor	3:1						
Overload	<110%, 60min; 110%~125%, 10min; 125%~150%,1min; >150%, 200ms						
BATTERIES							
DC voltage	Long time model: ±240VDC (Selectable, 32 - 40pcs)						
Inbuilt battery (standard model)	(10+10) x 9AH	(20+20) x 7AH	(20+20) x 9AH	(15+15) x 9AH x 2 strings	(20+20) x 9AH x 2 strings	/	
Charging current	10A Max.					15A Max.	20A Max.
Charger voltage precision	1%						
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery						
SYSTEM							
Efficiency	95% Max.						
Transfer time	0 ms						
Max. number of parallel connections	4						
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure						
Communications	RS232, USB, RS485, EPO, Dry contacts, Parallel port (Standard) SNMP card, WI-FI card, GPRS card, SMS alarms (Optional)						
Display	LED + 5 inches LCD touch screen						
OTHERS							
Operating temperature	0°C ~ 40°C						
Storage temperature	-40°C ~ 70°C						
Relative humidity	0 ~ 95% (Non-condensing)						
Altitude	<1000m, load derated 1% per 100m from 1000 ~ 2000m						
IP rating	IP 20						
Noise level at 1 m	55dB @ 100% load, 52dB @ 50% load				58dB @ 100% load, 55dB @ 50% load		
Dimensions (W × D × H) (mm)	250 x 720 x 560 (S) 250 x 720 x 560 (H)		250 x 800 x 700 (S) 250 x 720 x 560 (H)			250 x 840 x 930 (S) 250 x 840 x 650 (H)	
Packaged dimensions (W × D × H) (mm)	350 x 800 x 722 (S) 350 x 800 x 718 (H)		350 x 900 x 862 (S) 350 x 800 x 718 (H)			350 x 950 x 1102 (S) 350 x 980 x 810 (H)	
Net weight (kg)	82 (S) 31 (H)		131 (S) 33 (H)		145 (S) 33 (H)		215 (S) 42 (H)
Gross weight (kg)	93 (S) 40 (H)		142 (S) 42 (H)		156 (S) 42 (H)		227 (S) 52 (H)

S means standard model, H means long time model.

All specifications are subject to change without notice.

Note: With Isolation Transformer, UPS Dimensions & Weight will be Changed.

Custom-made specifications are acceptable.

Online UPS Nx990 G4

40 kVA ~ 200 kVA (3:3) PF 1.0



FEATURES

- ▶ Advanced dual-core DSP control technology and 3-level technology
- ▶ Output power factor 1.0
- ▶ Active Power Factor Correction Technology, input power factor up to 0.99
- ▶ System efficiency improved to 96%, energy saving rate is doubled
- ▶ Working efficiency up to 99% in ECO mode
- ▶ Dual input design, supporting independent bypass
- ▶ Advanced digital and parallel technology, providing higher reliability than single system
- ▶ Wide input voltage range, 50/60 Hz auto-sensing frequency
- ▶ 50 Hz/60 Hz frequency conversion mode
- ▶ Compact internal layout, small footprint
- ▶ Fan speed varies intelligently with temperature, reducing noise and extending its service life
- ▶ Features strong fault tolerance, one fan damaged takes 50% of the load, two fans damaged take 30% of the load
- ▶ Conformal coating technology to make UPS operate in harsh environment for a long time.
- ▶ Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- ▶ Linear downgrading in low voltage input reducing battery discharging times
- ▶ Flexible battery configuration setting, selectable battery numbers: 30-44 pcs •
- ▶ Digitally controlled charger (Max. 48 A)
- ▶ Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- ▶ Zero switching time for UPS power supply mode when the mains power is unstable, ensuring output uninterrupted
- ▶ Settable delayed start time when mains power is restored
- ▶ 5 inches LCD colorful touch screen, friendly human & machine interface
- ▶ Powerful background software for parameters configuration and online upgrade
- ▶ Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, RJ45, dry contacts, SNMP card, Wi-Fi card and GPRS card
- ▶ Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- ▶ Options and accessories: RS232, USB, RS485, RJ45, parallel, dry contacts, EPO and battery temperature compensation interfaces supplied; optional SNMP card, Wi-Fi card, GPRS card, battery temperature sensor, EMD detector and SMS alarms
- ▶ IGBT Inverter and Rectifier



Online UPS Nx990 G4

Specifications



MODEL	Nx9940	Nx9960	Nx9980	Nx99100	Nx99120	Nx99160	Nx99200
Capacity	40 kVA/40 kW	60 kVA/60 kW	80 kVA/80 kW	100 kVA/100 kW	120 kVA/120 kW	160 kVA/160 kW	200 kVA/200 kW
INPUT							
Input wiring	Three-phase five-wire (3Φ + N + PE)						
Rated voltage	380 / 400 / 415 Vac						
Voltage range	304 ~ 485 Vac (no downgrading), 138 ~ 304 Vac (linear downgrading between 40% ~ 100% load)						
Rated frequency	50 / 60 Hz (auto-sensing)						
Frequency range	40 ~ 70 Hz						
Power factor	≥ 0.99						
Bypass voltage range	-60% ~ +20% (settable)						
Total harmonic distortion (THDi)	≤3%						
OUTPUT							
Output wiring	Three-phase five-wire (3Φ + N + PE)						
Rated voltage	380 / 400 / 415 Vac						
Voltage regulation	±1%						
Frequency	Synchronized with utility in mains mode, 50 / 60 Hz ±0.1% in battery mode						
Waveform	Sinusoidal						
Power factor	1						
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)						
Crest factor	3:1						
Overload	105% ~110% for 60 min, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, > 150% for 0.2 s						
BATTERIES							
DC voltage	± 192 Vdc (± 180 ~ ± 264 Vdc settable) 40 kVA built-in battery: ± 240 Vdc (80 pcs 9 Ah/12 V)						
Number of battery	32 pcs (30 ~ 44 pcs settable)						
Charging current (max.)	12 A	24 A			36 A		48A
Recharge time	Depend on the capacity of battery						
SYSTEM							
Efficiency	Max. 96% in online mode, 99% in ECO mode						
Transfer time	0 ms						
Protections	Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure						
Max. number of parallel connections	4						
Communications	Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card						
Display	5 inches colorful LCD touch screen						
OTHERS							
Operating temperature	0℃~40℃						
Storage temperature	-25℃~55℃ (without battery)						
Relative humidity	0% ~ 95% (non-condensing)						
Altitude	≤ 1000 m; above 1000 m, downgrading 1% for each additional 100 m						
IP rating	IP 20						
Noise level at 1 m	≤ 65 dB						
Dimensions (W × D × H) (mm)	360 × 850 × 885	360 × 850 × 950	360 × 850 × 1200	440 × 850 × 1200		600 × 850 × 1200	
Packaged dimensions (W × D × H) (mm)	450 × 940 × 1055	450 × 940 × 1120	450 × 940 × 1370	530 × 940 × 1370		700 × 950 × 1370	
Net weight (kg)	95, 295 (built-in BAT)	130	156	158	198	250	300
Gross weight (kg)	110, 310 (built-in BAT)	145	172	180	220	275	325

All specifications are subject to change without notice.

Custom-made specifications are acceptable.

Derate capacity to 90% when the number of batteries is set to 30 pcs.

Note: With Isolation Transformer, UPS Dimensions & Weight will be Changed.

Modular UPS Nx660A

25 kVA~200kVA PF 1.0



HIGHLIGHTS

- ▶ High power factor 1.0
- ▶ High efficiency 96%
- ▶ High power density
- ▶ 3-level technology
- ▶ 2 U power module
- ▶ Power flexibility from 25-200 kW
- ▶ Scalability & Modular hot-swappable.
- ▶ Low total cost of ownership



Nx660 Series modular UPS is ideal for reliable, saving, intelligent and easy solutions. It ensures that a scalable, secure, high quality power supply is available for any critical high-density computer and IT environment applications, such as data centers and other critical loads.

Nx660 Series (25 kVA-200 kVA) UPS is a high-end modular UPS with latest dual-core DSP control technology. It adopts a highly intelligent modular design which mainly contains power modules, bypass module. and control module, all modules support "plug & play" to simplify UPS servicing and maintenance. The available UPS power and redundancy level can expand vertically from 25 kVA/25 kW to 200 kVA/200 kW in one single power cabinet with flexible configuration for meeting different needs. Based on superior electrical performance, perfect hardware and software protection function, Nx660 Series UPS can adapt to different grid environment and provides maximum protection and high quality power for critical loads in data centers or other Important applications



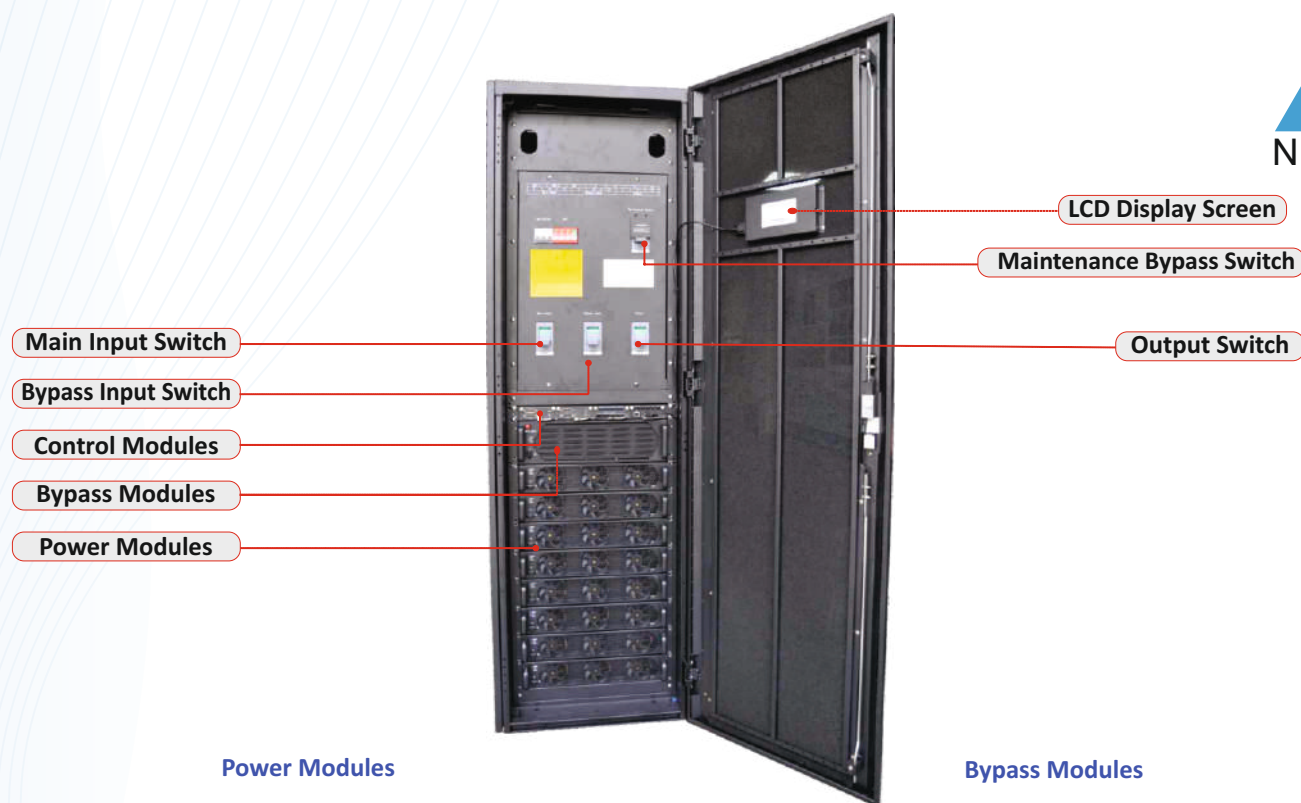
FEATURES

- ▶ Advanced dual-core DSP control technology, Waveform: Sinusoidal
- ▶ True On-line, double conversion power protection, and with strong load capacity.
- ▶ Compact footprint, modular Hot-swappable design simplifying maintenance and scalability
- ▶ High efficiency up to 96% in on-line mode, 99% efficiency in ECO mode.
- ▶ Dual input design, independent bypass available, improving bypass availability
- ▶ Output power factor 1.0, input power factor ≥ 0.99 , input THDi $\leq 3\%$, output THDv $\leq 1\%$
- ▶ 138~485 Vac wide input voltage range, 50 Hz/60 Hz grid self-adaptive
- ▶ Frequency conversion available: 50 Hz input/60 Hz output or 60 Hz input/50 Hz output
- ▶ Advanced digital parallel technology, improving redundancy and reliability in system
- ▶ Flexible charger parameter and battery configuration settings, battery number 30-46 pcs selectable
- ▶ Compatible with lead-acid battery and lithium battery, suitable for different types of battery configuration requirements
- ▶ Support cold start with battery and auto restart with mains power
- ▶ Settable delay time for startup when the mains power is restored, reducing the impact on the grid or generators
- ▶ Fan speed varies intelligently with temperature, reducing noise and extending the service life. of the fan
- ▶ Fault-tolerant design for fan system, taking 35% loads when any one of fans fails
- ▶ Superior hardware and software protection function, robust self-diagnostic function, and abundant event log
- ▶ Hibernation function to improve the system efficiency at light loads and extend the service life of UPS
- ▶ Powerful background software for parameters configuration and online updating
- ▶ 7 inches LCD touch screen, friendly human-machine interface
- ▶ Multi-platform communications: RS232, RS485, CAN, NET, dry contacts, SNMP, Wi-Fi and GPRS communication interfaces; Real-time monitoring UPS available through the mobile App after installing Wi-Fi card and GPRS card
- ▶ Intelligent battery management, automatic floating/equalizing charge control, battery self- diagnosis control, SOC detection, SOH detection and charger hibernation control, extending battery lifespan
- ▶ IGBT Inverter and Rectifier

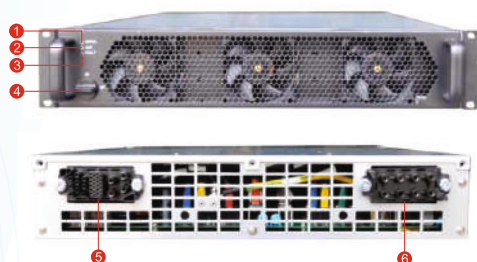
AVAILABLE OPTIONS

Parallel cables,
LBS cables,
Battery temperature sensor,
Wi-Fi card,
GPRS card,
EMD and SMS alarms





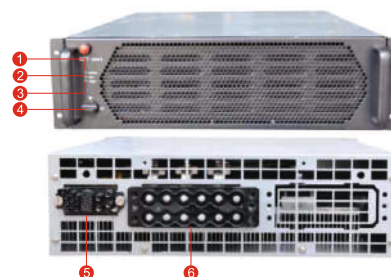
Power Modules



- 1 Run Indicator 2 Alarm Indicator 3 Fault Indicator
- 4 Ready Switch 5 Output Port 6 Input Port

Dimensions (W x D x H) (mm)	442×620×86
Weight (kg)	20.26 kg
Charging current	10 A
Capacity	25 kVA / 25 kW
Power density	17.2 W / inch ³

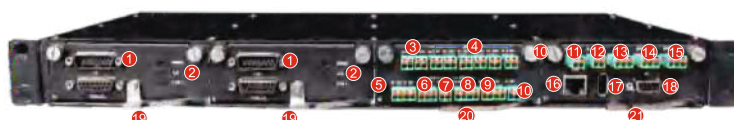
Bypass Modules



- 1 Run Indicator 2 Alarm Indicator 3 Fault Indicator
- 4 Ready Switch 5 Signal Terminal 6 Power Terminal

Dimensions (W×D×H) (mm)	442×500×130
Weight (kg)	18 kg
Capacity	200 kVA / 200 kW

Control Modules



- 1. LBS Connection Port/Rack Parallel Port
- 2. LED Indicator
- 3. Input Dry Contacts
- 4. Output Dry Contacts
- 5. Battery Ground Fault (BTG) Interface / Generator (GEN) Interface
- 6. Generator (GEN) Port
- 7. Battery Circuit Breaker (BCB) Port
- 8. Epo Port
- 9. Switch State Port of Distribution Cabinet
- 10. SPD Port
- 11. Ambient Temp Port
- 12. Battery Temperature Compensation
- 13. Can Port
- 14. R485 Port 1
- 15. R485 Port 2
- 16. Ethernet Port
- 17. USB Port
- 18. LCD Port
- 19. Lug-in Switch of System Control Boards
- 20. Plug-in Switch of Dry Contacts Board
- 21. Plug-in Switch of Monitoring Board

Modular UPS Nx660A

Specifications



MODEL	Nx6600	Nx66200
Rated capacity	100 kVA / 100 kW	200 kVA / 200 kW
Number of power module	4	8
Rated capacity of power module	25 kVA / 25 kW	
INPUT		
Input wiring	Three-phase five-wire (3Φ + N + PE)	
Rated voltage	380 / 400 / 415 Vac	
Voltage range	138 ~ 305 Vac (linear derating at 40% ~ 100% load), 305 ~ 485 Vac (no derating)	
Frequency range	40 ~ 70 Hz	
Input power factor	≥ 0.99	
THDi	≤ 3%	
Bypass input voltage range	-60% ~ +25% (settable)	
Battery voltage	± 240 Vdc (±180 ~ ± 276 Vdc settable)	
Number of battery	40 pcs 12 V batteries (30, 32, 34, 36, 38, 40 42, 44, 46 pcs settable)	
OUTPUT		
Output wiring	Three-phase five-wire (3Φ + N + PE)	
Rated voltage	380 / 400 / 415 Vac	
Output voltage regulation accuracy	±1%	
Output frequency accuracy	Synchronized with utility in mains power mode; 50 Hz / 60 Hz ± 0.1% in battery mode	
Output power factor	1	
Output waveform distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)	
Crest factor	3:1	
Overload capacity	105% < load ≤ 110% for 60 min, 110% < load ≤ 125% for 10 min, 125% < load ≤ 150% for 1 min, load > 150% for 0.2 s	
SYSTEM		
Max. efficiency	96% in on-line mode, 99% in ECO mode	
Transfer time	0 ms	
Max. number of parallel connections	2	
Protections	Short-circuit - overload - over-temperature - battery low voltage - undervoltage - overvoltage - fan failure protection	
Communications	Standard configurations: RS485 CAN, NET, SNMP, dry contacts port, and EPO Optional configurations: Wi-Fi card, parallel port, LBS port, GPRS card, Battery temperature sensor, EMD and SMS alarms	
Display	7 inches LCD touch screen	
ENVIRONMENTAL		
Operating temperature	0°C ~ 40°C	
Storage temperature	-25°C ~ +55°C (without battery)	
Relative humidity	0% ~ 95% (non-condensing)	
Altitude	≤ 1000 m, above 1000 m, derating 1% for each additional 100 m	
Protection level	IP 20	
Noise	≤ 65 dB (at 1 m)	
OTHERS		
Cabinet dimensions (W x D x H)(mm)	600×850×1200	600 x 850 x 2000
Cabinet weight(kg)	180	280
Module dimensions(W x D x H)(mm)	442 x 620 x 86	
Power module weight(kg)	21	
Color	Black	

All specifications are subject to change without notice.

Modular UPS Nx660B

50 kVA~600kVA PF 1.0



HIGHLIGHTS

- ▶ High power factor 1.0
- ▶ High efficiency 96.5%
- ▶ High adaptability
- ▶ Power flexibility from 50 600 kW
- ▶ Modular hot-swappable & Scalability
- ▶ High MTBF and low MTTR



Nx660 modular UPS is ideal for reliable, saving, intelligent and easy solutions. It ensures that a scalable, secure, high quality power supply is available for any critical high-density computer and IT environment applications, such as data centers and other critical loads

Nx660 modular UPS is a scalable three-phase/three-phase uninterruptible power supply system with DSP technology and provides true on-line double conversion power protection. The available UPS power and redundancy level can expand vertically from 50 to 600 kVA/600 kW in one single power cabinet, and four power cabinets can be connected in parallel, increasing the capacity up to 2.4 M kW. It features modular hot-swappable design, all modules support "plug & play", including power modules, bypass module, and control module, simplifies UPS servicing and maintenance.



FEATURES

- ▶ DSP digital control technology
- ▶ Flexible modularity and easy scalability with all hot-swappable module design
- ▶ High efficiency at low load rate: 96% at 40% rated load and 95% at 20% rated load
- ▶ High power density of 50 kVA/3U power module
- ▶ High grid adaptability, strong load adaptability and strong overload capability
- ▶ Small footprint (500 KVA system only 1.02 m footprint)
- ▶ Inbuilt integrated PDU system, easy installation and saving investment
- ▶ Input power factor > 0.99, THDI <3%, environment friendly and high-efficiency and energy-saving
- ▶ Soft-start technology improves generator matching up to 1:1.1
- ▶ Support two modes of frequency conversion: 50 Hz input/60 Hz output and 60 Hz input/50 Hz output
- ▶ Intelligent hibernation design enables UPS to operate efficiently at low load rate
- ▶ Advanced parallel expansion technology, support 4 units in parallel
- ▶ Share battery pack in parallel operation, saving user's battery cost
- ▶ Flexible charger parameter and battery configuration setting, numbers of battery 30-46 pcs selectable
- ▶ Intelligent battery management (Intelligent charge/discharge management and float charging voltage temperature compensation), extending battery lifespan
- ▶ Support battery cold start and utility self boot
- ▶ Self-aging function, easy debugging and test on site
- ▶ Fault-tolerant design for fan system: 30% load can be driven when 2 fans fail and 50% load when 1 fan fails
- ▶ Front accessible maintenance, top/bottom cable entry compatible.
- ▶ Complete hardware and software protection function, robust self-diagnostic function, and abundant event log for check
- ▶ 7 inches LCD touch screen, friendly human-machine interface
Monitoring unit with built-in SNMP, supports RS485 and dry contacts
- ▶ IGBT Inverter and Rectifier

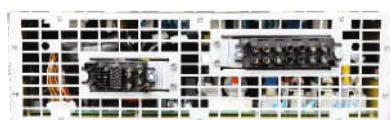




Power Modules



Bypass Modules



Control Modules



- | | |
|---|---|
| 1. Parallel Port | 11. Environmental Temperature Port |
| 2. LED Indicator | 12. Battery Temperature Compensation Port |
| 3. DRY_IN | 13. Can Port |
| 4. DRY_OUT | 14. RS485 Port 1 |
| 5. BTG Port | 15. RS485 Port 2 |
| 6. BCB Port | 16. Ethernet Port |
| 7. BCB Tripping Signal | 17. USB Port |
| 8. EPO Port | 18. LCD Screen Port |
| 9. Switch State Port of Power Distribut Cabinet | |
| 10. SPD Port | |

Modular UPS Nx660B

Specifications



MODEL	Nx66200	Nx66300	Nx66400	Nx66500	Nx66600
Rated capacity	200 kVA/200 kW	300 kVA/300 kW	400 kVA/400 kW	500 kVA/500 kW	600 kVA/600 kW
Numbers of power modules	4	6	8	10	12
Rated capacity of power module	20/40/50 kVA	30/50/60 kVA	40/50 kVA	50 kVA	50/60 kVA
INPUT					
Input wiring	3 Ph + N + PE				
Rated voltage	380 / 400 / 415 Vac				
Voltage range	138 ~ 485 Vac (305 ~ 485 Vac without power downgrading; 138 ~ 305 Vac with linear downgrading 40%)				
Input frequency	40 ~ 70 Hz				
Power factor	≥ 0.99				
Current distortion	< 3%				
BATTERIES					
Battery voltage	± 240 Vdc (±180, ± 192, ± 204, ± 216, ± 228, ± 252, ± 264, ± 276 selectable)				
Number of battery	40 pcs 12 V batteries (30 / 32 / 34 / 36 / 38 / 42 / 44 / 46 pcs selectable)				
OUTPUT					
Output wiring	3 Ph + N + PE				
Rated voltage	380 / 400 / 415 Vac ±1%				
Frequency	Synchronized with utility in mains power mode: 50 Hz / 60 Hz ± 0.25% in battery mode				
Power factor	1				
Voltage distortion	≤ 1% with linear load / ≤ 3 % with non-linear load				
Crest factor	3:1				
Inverter overload capacity	105% < load ≤ 110%: transfer to bypass in 60 min 110% < load ≤ 125%: transfer to bypass in 10 min 125% < load ≤ 150%: transfer to bypass in 1 min Load > 150%: transfer to bypass in 200 ms				
Bypass overload capacity	Load ≤135% for long term; < 1000% load for 100 ms				
SYSTEM					
Efficiency	96.5 %				
Max. number of parallel connections	4 units				
Transfer time	0 ms				
Protections	Short circuit protection, overload protection, over-temperature protection, battery low voltage protection, output over/low voltage protection, fans failure protection etc.				
Communications	RS485, dry contacts, SNMP				
Display	7 inches LCD touch screen				
OTHERS					
Operating temperature	0 ~ 40℃				
Storage temperature	-40℃ ~ +70℃				
Humidity	0 ~ 95% (non-condensing)				
Altitude	≤ 1000 m. Above 1000 m, derating 1% for each additional 100 m				
Protection level	IP 20				
Noise level at 1 m	< 65 dB	< 68 dB			
Cabinet dimensions (W × D × H) (mm)	600 × 850 × 2000		1200 × 850 × 2000		1400 × 850 × 2000
UPS module dimensions (W × D × H) (mm)	440 × 620 × 130				
Cabinet weight (kg)	233	242	415	465	617
Power module weight (kg)	32				

All specifications subject to change without notice.

Modular UPS Nx660C

400 kVA~1200kVA PF 1.0



HIGHLIGHTS

- High power factor 1.0
- High efficiency 97%
- High adaptability
- Power flexibility from 400-1200 kW
- Modular hot-swappable & Scalability
- High MTBF and low MTTR



Nx660 modular UPS is ideal for reliable, saving, intelligent and easy solutions. It ensures that a scalable, secure, high. quality power supply is available for any critical high-density computer and IT environment applications, such as data centers and other critical loads.

Nx660 modular UPS is a scalable three-phase/ three-phase: uninterruptible power supply system with DSP technology and provides true on-line double conversion power protection. The available UPS power and redundancy level can expand vertically from 400 to 1200 kVA/1200 kW in one single power cabinet, and four power cabinets can be connected in parallel, increasing the capacity up to 4800 kW It features modular hot-swappable design, all modules support "plug & play". including power modules, bypass module, and control module, simplifies UPS servicing and maintenance



FEATURES

- ▶ Dual DSP digital control technology
- ▶ Flexible modularity and easy scalability with all hot-swappable module design.
- ▶ High efficiency at low load rate: 97% at 40% rated load and 96% at 20% rated load
- ▶ High power density of 100 kVA/3U power module.
- ▶ Wide input voltage range, high grid adaptability, strong load adaptability and strong overload capability
- ▶ Small footprint (600 kVA system only 0.8 m² footprint)
- ▶ Inbuilt integrated PDU system, easy installation and saving investment
- ▶ Input power factor > 0.99, THDI <3%, environment friendly and high-efficiency and energy-saving
- ▶ Soft-start technology improves generator matching up to 1:1.1
- ▶ Support two modes of frequency conversion: 50 Hz input/60 Hz output and 60 Hz input/50 Hz output
- ▶ Intelligent hibernation design enables UPS to operate efficiently at low load rate to prolong service life and improve the system efficiency
- ▶ Advanced parallel expansion technology, support 4 units in parallel.
- ▶ Share battery pack in parallel operation, saving user's battery cost
- ▶ Flexible charger parameter and battery configuration setting, numbers of battery 30-50 pcs selectable
- ▶ Intelligent battery management (Intelligent charge/discharge management and float charging voltage. temperature compensation), extending battery lifespan
- ▶ Support battery cold start and utility self boot
- ▶ Self-aging function, easy debugging and test on site
- ▶ Fault-tolerant design for fan system: 20% load can be driven when 2 fans fail and 50% load when 1 fan fails
- ▶ Front accessible maintenance, top/bottom cable entry compatible
- ▶ Complete hardware and software protection function, robust self-diagnostic function, and abundant event log for check
- ▶ 7 inches LCD touch screen, friendly human-machine interface.
- ▶ Monitoring unit with built-in SNMP, supports RS485 and dry contacts
- ▶ IGBT Inverter and Rectifier



400-600kVA



800-1200kVA

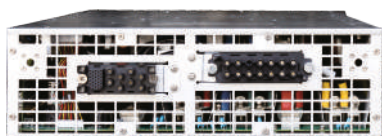




Power Modules



Bypass Modules



Control Modules



- | | |
|---|---|
| 1. Parallel Port | 11. Environmental Temperature Port |
| 2. LED Indicator | 12. Battery Temperature Compensation Port |
| 3. DRY_IN | 13. Can Port |
| 4. DRY_OUT | 14. RS485 Port 1 |
| 5. BTG Port | 15. RS485 Port 2 |
| 6. BCB Port | 16. Ethernet Port |
| 7. BCB Tripping Signal | 17. USB Port |
| 8. EPO Port | 18. LCD Screen Port |
| 9. Switch State Port of Power Distribut Cabinet | |
| 10. SPD Port | |

Modular UPS Nx660C

Specifications



MODEL	NX66400	NX66500	NX66600	NX66800	NX661000	NX661200
Rated capacity	400 kVA/400 kW	500 kVA/500 kW	600 kVA/600 kW	800 kVA/800 kW	1000 kVA/1000 kW	1200 kVA/1200 kW
Numbers of power modules	4	5	6	8	10	12
Rated capacity of power module	100 kVA / 100 kW					
INPUT						
Input wiring	3 Ph + N + PE					
Rated voltage	380 / 400 / 415 Vac					
Voltage range	138 ~ 485 Vac (324 ~ 485 Vac without power downgrading; 139 ~ 324 Vac with linear downgrading 35%)					
Input frequency	40 ~ 70 Hz					
Power factor	≥ 0.99					
Current distortion	< 3%					
BATTERIES						
Battery voltage	480 Vdc (360 ~ 600Vdc selectable)					
Number of battery	40 pcs 12 V batteries (30~50 pcs selectable)					
OUTPUT						
Output wiring	3 Ph + N + PE					
Rated voltage	380 / 400 / 415 Vac ± 1%					
Frequency	Synchronized with utility in mains power mode: 50 Hz / 60 Hz ± 0.25% in battery mode					
Power factor	1					
Voltage distortion	≤ 1% with linear load / ≤ 3 % with non-linear load					
Crest factor	3:1					
Inverter overload capacity	105% < load ≤ 110%: transfer to bypass in 60 min 110% < load ≤ 125%: transfer to bypass in 10 min 125% < load ≤ 150%: transfer to bypass in 1 min Load > 150%: transfer to bypass in 200 ms					
Bypass overload capacity	Load ≤125% for long term; >200% load for 100 ms					
SYSTEM						
Efficiency	97%					
Max. number of parallel connections	4 units					
Transfer time	0 ms					
Protections	Short circuit protection, overload protection, over-temperature protection, battery low voltage protection, output over/low voltage protection, fans failure protection etc.					
Communications	RS485, dry contacts, SNMP					
Display	7 inches LCD touch screen					
OTHERS						
Operating temperature	0°C ~ 55°C					
Storage temperature	-25°C ~ 55°C					
Humidity	0 ~ 95%(non-condensing)					
Altitude	≤1000 m. Above 1000 m, derating 1% for each additional 100 m					
Protection level	IP 20					
Cabinet dimensions (W x D x H) (mm)	800 × 1000 × 2000			2000 × 1000 × 2000		
UPS module dimensions (W x D x H) (mm)	440 × 750 × 130					
Cabinet weight (kg)	412			920		
Power module weight (kg)	50					

All specifications are subject to change without notice.

HOME UPS DHU Series

1 kVA~7.5kVA



HIGHLIGHTS

- ▶ DSP Based Design
- ▶ Smart Battery Charging For Long Life
- ▶ Automation In Charge Controlling System
- ▶ Over, Heavy Load & Short Circuit Protection
- ▶ Mains/ Optional Solar (PV Panels)
- ▶ LCD Display For Continous System Status
- ▶ Noise Less Working



HOME UPS DHU SERIES

Specifications



MODEL	DHU1000	DHU1500	DHU2000	DHU3000	DHU5000	DHU7500
Power Rating (PF 1)	1KVA	1.5KVA	2KVA	3KVA	5KVA	7.5KVA
Power Rating (PF=0.8)	800W	1200W	1600W	2400W	4000W	6000W
DC Input						
DC Voltage (VDC)	12V	24V	24V	36V	48V	72V
AC Input						
Ac Voltage	(INV Mode) 100/285V/(UPS Mode) 190-265V @ 50Hz ± 1Hz					
Hysterisis for AC Input	Low side 10VAC & Higher side 5VAC					
AC Output						
Wave Form	Pure Sine Wave					
Frequency	50Hz ± 0.5Hz					
AC Voltage (VAC)	220V (optional ± 3V)					
Regulation	± 2%					
Power Factor	0.8 ± 0.1					
Harmonic Distortion	< 3% of T,H,D atLiner Load					
Over Load Detection						
	> 112% for 1sec, >130% ± 10% for New mSec					
	> 200% Trip Off					
Charger						
Charging Current	0 ~ 10 Amps					
Charging Voltage	0V ~ 60VDC					
Efficiency						
DC to AC (%)	>83%	>83%	>85%	>85%	>85%	>85%
Protection						
	Inside Protection Turn Off					
	Overload, Over Temperature, Short Circuit & Battery Low					
Noise Level						
	1m distance					
	< 50dBA					
LCD Display						
Status	Inverter Mode, AC Input, Ac Output, Battery Capacity, Inside Temperature, Faults condition, and Load Capacity in watts					
Alarms						
Input Dc	Beep for Every 5 Sec at Low Voltage					
INV Faults	Continous Beep					
Transfer Time						
	UPS via Mains					
	< 3mSec					
Environment						
Temprature	0°C ~ 50°C					
Humidity	0% ~ 95%					

All specifications are subject to change without notice.

Lithium Inverter NHU Plus Series

1kVA ~ 4kVA (1:1) PF 0.8 ~ 1



FEATURES

- ▶ Pure Sine wave Output
- ▶ Active Power Factor Correction charger provides No Harmonics
- ▶ High Efficiency gives low Electricity Bill
- ▶ Lithium Battery Compatible(Compact Design)
- ▶ Smart Battery Charging for Longer Life
- ▶ Solar Compatible
- ▶ LCD Display for Continuous System Status
- ▶ Noise Less Working
- ▶ Wi-fi Compatible (Optional)
- ▶ Both Inbuilt & External Battery Models Available



Why Lithium Battery recommended for Home UPS

- ▶ High efficiency consumes low power, saving significantly on power bills
- ▶ Higher Energy Density, leading to longer run times and lighter weights
- ▶ Higher charge/discharge efficiency
- ▶ Low Self Discharge
- ▶ Constant output power
- ▶ Very Low maintenance
- ▶ Environmental friendly



Lithium Inverter

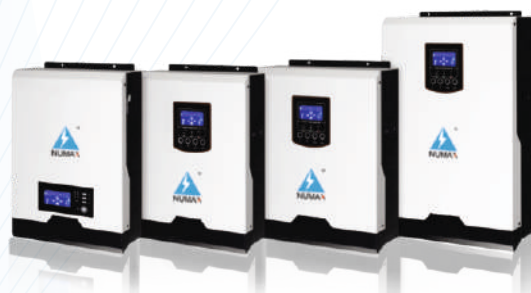
Specifications



MODEL	NHU+1K	NHU+1.5K	NHU+2K	NHU+3K	NHU+3.5K
Capacity	1KVA 800W	1.5KVA 1200W	2KVA 2000W	3KVA 3000W	3.5KVA 3500W
DC Input					
DC Voltage (VDC)	12V	24V	36V	48V	48V
AC Input					
AC Voltage (VAC)	(INV Mode) 100-285V / (UPS Mode) 190-265V @ 50HZ $\pm$ 1HZ				
Input Power Factor	0.99				
Input THDi	< 5%				
Hysteresis for AC Input	Low side 10VAC & higher side 5VAC				
AC Output					
Wave Form	Pure Sine Wave				
Frequency	50HZ $\pm$ 0.5HZ				
AC Voltage (VAC)	220V (optional $\pm$ 3V)				
Regulation	$\pm$ 2%				
Power Factor	0.8 $\pm$ 0.1 (for 1 & 1.5 KVA) / 1 (for 2KVA and Above)				
Harmonic Distortion	< 3% of T.H.D at Linear Load				
Over Load Detection	> 112% for 10sec, > 130% $\pm$ 10% for 50 mSec				
Charger					
Charging Current	Upto 30 Amps				
Charging Voltage	0V ~ 60VDC				
Efficiency					
DC to AC(%)	>90%	>90%	>92%	>92%	>93%
Protection					
Inside Protection Turn Off	Overload, Over Temperature, Short Circuit, and Battery Low				
Noise Level					
1m distance	< 50dBA				
LCD Display					
Status	Inverter Mode, AC Input, AC Output, Battery Capacity, Inside Temperature, Faults condition, and Load Capacity in watts				
Alarms					
Input DC	Beep for Every 5 Sec at Low Voltage				
INV Faults	Continuous Beep				
Transfer Time					
UPS via Mains	< 10mSec				
Environment					
Temperature	0°C ~ 50°C				
Humidity	0% ~ 95%				

All Specifications are subject to change without prior notice

NXHI Solar Off-Grid Inverter



NXHI VP1000-12, NXHI VM2000-24
NXHI VP1000-12, NXHI VM2000-24
NXHI VP3000-24, NXHI VM3000-24
NXHI VM 3000-24 Plus, NXHI VP 5000-48, NXHI VM 5000-48

- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Battery equalization for optimized battery performance and lifecycle
- Cold start function
- Optional anti-dust kit

NXHI Solar Off-Grid Inverter Selection Guide

MODEL	NXHI VP 1000-12	NXHI VM 1000-12	NXHI VP 2000-24	NXHI VM 2000-24	NXHI VP 3000-24	NXHI VM 3000-24	NXHI VM 3000-24 Plus	NXHI VP 5000-48	NXHI VM 5000-48
RATED POWER	1000VA/1000W		2000VA/2000W		3000VA / 3000W			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)	230VAC ± 5%								
Surge Power	2000VA		4000VA		6000VA			10000VA	
Efficiency (Peak)	90%				93%				
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)								
Waveform	Pure sine wave								
BATTERY									
Battery Voltage	12 VDC		24 VDC					48 VDC	
Floating Charge Voltage	13.5 VDC		27 VDC					54 VDC	
Overcharge Protection	16 VDC		31 VDC		33 VDC			63 VDC	
SOLAR CHARGER & AC CHARGER									
Solar Charger type	PWM	MPPT	PWM	MPPT	PWM	MPPT		PWM	MPPT
Maximum PV Array Open Circuit Voltage	55 VDC	102 VDC	80 VDC	102 VDC	80 VDC	102 VDC	145 VDC	105 VDC	145 VDC
Maximum PV Array Power	600 W	500 W	1200 W	1000 W	1200 W	1000 W	1500 W	2400 W	3000 W
MPP Range @ Operating Voltage	N/A	15 ~ 80 VDC	N/A	30 ~ 80 VDC	N/A	30~80 VDC	30~115 VDC	N/A	60 ~ 115 VDC
Maximum Solar Charge Current	50 A	40 A	50 A	40 A	50 A	40 A	60 A	50 A	60 A
Maximum AC Charge Current	20 A	20 A	20 A	20 A	25A	25A	60 A	60 A	60 A
Maximum Charge Current	50 A	60 A	50 A	60 A	70 A	60 A	120 A	110 A	120 A
PHYSICAL									
Dimension, D x W x H (mm)	88 x 225 x 320				100 x 285 x 334		100 x 300 x 440	100 x 300 x 440	
Net Weight (kgs)	4.4	4.4	5	5	6.3	6.5	9.5	8.5	9.7
Communication Interface	USB/RS232								
ENVIRONMENT									
Humidity	5% to 95% Relative Humidity (Non-condensing)								
Operating Temperature	-10°C to 50°C								
Storage Temperature	-15°C to 60°C								

Product specifications are subject to change without further notice.

NXHI Off-Grid Inverter



- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- Wide PV input voltage range 90VDC ~ 450VDC
- Status indication with RGB lights
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Built-in DC output for DC fan, LED bulb, router and so on.
- Parallel operation with 6 units

NXHI Off-Grid Inverter Selection Guide

MODEL	NX HI 8K	NX HI 11K
RATED POWER	8000VA/8000W	11000VA/11000W
PARALLEL CAPABILITY	YES, 6 units	
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)	230VAC ± 5%	230VAC ± 5%
Surge Power	16000VA	22000VA
Efficiency (Peak)	93%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
DC Voltage	12 VDC ± 5%, 100W	
BATTERY		
Battery Voltage	48 VDC	48 VDC
Floating Charge Voltage	54 VDC	54 VDC
Overcharge Protection	66 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	8000W (4000W x 2)	11000W (5500W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum PV Input Current	27A x 2 (MAX 40A)	
Maxmum Solar Charge Current	150A	150A
Maximum AC Charge Current	120A	150A
Maximum Charge Current	150A	150A
PHYSICAL		
Dimension, D x W x H (mm)	158.4 x 503.6 x 530.8	
Net Weight (kgs)	20	
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	
STANDARD		
Compliance Safety	CE	CE

Product specifications are subject to change without further notice.

NX HI Solar Inverter



NXHI 2KW/3KW/5KW

NXHI 6KW



Pure sine wave output
Built-in MPPT solar charger
Programmable supply priority for PV, Battery or Grid
User-adjustable charging current and voltage
Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
Detachable LCD panel
Built-in Wi-Fi for mobile monitoring (APP is available)
Supports USB on-the-go function
Reserve BMS communication
Parallel operation up to 9 units
Anti Islanding Protection Available

NXHI Hybrid Solar Inverter Selection Guide

MODEL	NXHI 2KW	NXHI 3KW	NXHI 5KW	NXHI 6KW
Phase	1-phase in / 1-phase out			
Maximum PV Input Power	3000W	4500W	6000W	6000W
Rated Output Power	2000W	3000W	5000W	6000W
Maximum Charging Power	3000W	3000W	5000W	6000W
GRID-TIE OPERATION				
PV INPUT (DC)				
Nominal DC Voltage / Maximum DC Voltage	240 VDC / 500 VDC	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC /500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26A
Power Factor	> 0.99			
EFFICIENCY				
Maximum Conversion Efficiency (DC/AC)	95%			
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC			
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
Maximum AC Input Current	30 A	40 A	40 A	40 A
PV INPUT (DC)				
Maximum DC Voltage	500 VDC	500 VDC	450 VDC	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Waveform	Pure sine wave			
Efficiency (DC to AC)	93%	93%	93%	93%
HYBRID OPERATION				
PV INPUT (DC)				
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC	360 VDC / 500 VDC	360 VDC / 450 VDC	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 13 A	1 / 13A	1 / 27A	1 / 27A
GRID OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)			
Nominal Output Current	8.7A	13A	21.7A	26.1A
AC INPUT				
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC			
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC			
Maximum AC Input Current	30 A	40 A	40 A	40 A
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage	220/230/240 VAC			
Efficiency (DC to AC)	93%	93%	93%	93%
BATTERY & CHARGER				
Nominal DC Voltage	48 VDC			
Maximum Solar Charging Current	60 A	60 A	100 A	120 A
Maximum AC Charging Current	60 A	60 A	100 A	120 A
Maximum Charging Current	60 A	60 A	100 A	120 A
GENERAL				
PHYSICAL				
Dimension, D x W x H (mm)	140 x 295 x 468			140 x 365 x 468
Net Weight (kgs)	11	11	12	14
INTERFACE				
Parallel Function	Yes, 9 units			
Communication Port	USB, RS-232, Dry Contact and WiFi			
ENVIRONMENT				
Humidity	0 ~ 90% RH (No condensing)			
Operating Temperature	-10°C to 50°C			

Product specifications are subject to change without further notice.

NX HI Solar Inverter



- Maximum PV input current 25A
- Dual outputs for smart load management
- Built-in WiFi for mobile monitoring (APP is available)
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Detachable LCD panel
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel operation up to 9 units

NX HI Hybrid Solar Inverter Selection Guide

MODEL	NXHI 6kW
PHASE	1-phase in / 1-phase out
MAXIMUM PV INPUT POWER	7000W
RATED OUTPUT POWER	6000W
MAXIMUM CHARGING POWER	6000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)
Maximum AC Input Current	40A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120A
Maximum AC Charging Current	120A
Maximum Charging Current	120A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	140 x 295 x 468
Net Weight (kgs)	14
INTERFACE	
Parallel Function	Yes, 9 units
Communication Port	USB, RS-232, Dry Contact and WiFi
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10°C to 50°C

Product specifications are subject to change without further notice.

NXHI Solar 30kw



- IP65 waterproof and dustproof
- Built-in third generation SIC MOSEFET improves efficiency
- Accept dual AC inputs, utility power and generator power
- Built-in WiFi for mobile monitoring (App is available)
- User-adjustable charging current up to 50A
- Wide battery input range
- Built-in communication port for BMS (Rs485)
- Parallel operation up to 4 units
- Anti Islanding Protection Available

NXHI Solar Three Phase Hybrid Inverter Specification

MODEL	NX HI 30kw
MAXIMUM PV INPUT POWER	40000 W
RATED OUTPUT POWER	30000 W
MAXIMUM CHARGING POWER	30000 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 26A, B: 26A, C: 26A
Number of Strings Per MPP Tracker	A: 2, B: 2, C: 2
GRID/UTILITY OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	43.5 A per phase
Power Factor	0.9 lag to 0.9 lead
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96.5%
European Efficiency@ Vnominal	96%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	50 A
PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 26A, B: 26A, C: 26A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	97%
HYBRID OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 26A, B: 26A, C: 26A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	43.5 A per phase
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	50 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	97%
BATTERY & CHARGER	
Battery Voltage Range	500 ~ 900 VDC
Maximum Charging Current	50 A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	255 x 660 x 750
Net Weight (kgs)	73
INTERFACE	
Communication Port	RS-232, USB, DRY CONTACT, RS-485 and Wi-Fi
Intelligent Slot	Optional SNMP and MODBUS
ENVIRONMENT	
Humidity	0 ~ 100% RH
Operating Temperature	-25°C to 60°C (>45°C De-rating)
Altitude	0 ~ 1000 m**
PROTECTION & CERTIFICATE	
EMI/Safety	IEC/EN 61000, IEC/EN 62920, EN 62477
Grid Connection Standard	NRS097-2-1:2017, VDE-AR-N4105, G99, IEC 61683, IEC 61727, IEC 62116

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m
Product specifications are subject to change without further notice.

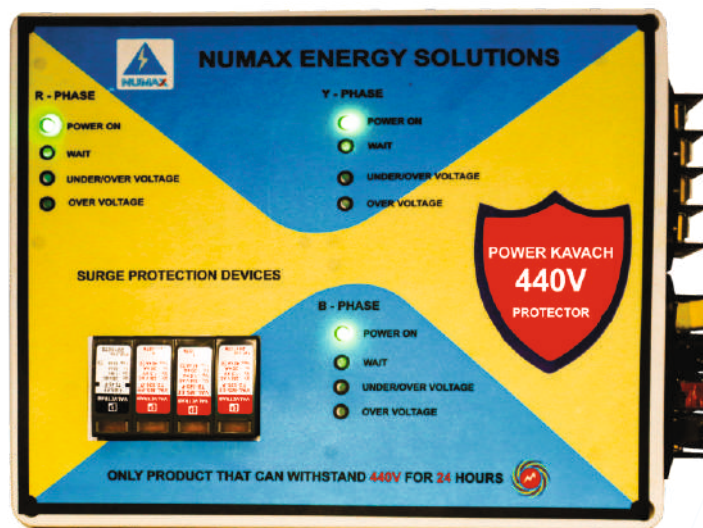
Power Protective Device-PPD

Ultimate power protection
for equipments



Working principle :

PPD is an Over voltage & Under voltage cutoff device which cuts off the supply to equipment connected if the voltage goes beyond safe operating voltage. PPD is connected at the input terminals of any equipment to be protected
Eg: UPS, Refrigeration equipment etc.



The main feature is that it can withstand voltages as high as 500V in single phase. Most equipment would burn at this voltage.

When the voltage come back to normal, the PPD Switches ON again automatically.

It is protection device, Which safeguards against extreme high voltages.

Why should you consider using PPD before your equipment?

No problems due to voltage fluctuation.

Zero downtime Your equipment become more rugged Less service calls=Increase profitability+Increase Credibility. Better perception of quality of your system in the minds of the customers

Increase the chances of repeat sales or referral sales.

Now you can install your equipment in the worst electrical Conditions without being bothered about services calls.

How is PPD better than other products?

- Superior Protection
- Occupies less Space
- Lightweight
- Transformer less design
- Portable.

Customization of PPDs

We can customize in following ways

1. Voltage Setting (higher cut off, Lower cutoff voltages)
2. Power on delay
3. Input and output terminations
4. Enclosures
5. Configurations

End use applications

- UPS
- AC drives
- Stabilizers
- Deep Freezers
- 3 Phase motors
- Compressors
- Control Panels
- Electrical Appliances (Heavy duty)
- Dish Satellite System
- Industrial Power Drivers
- Medical Equipments

Specifications

Technology	Transformer less IC technology
Voltage Containment	440VAC
Input Voltage	50-440 AC, 50-60Hz
Operating Voltage	165V to 270V AC (Configurable)
Under Voltage Cut-Off	165V $\pm$ 2% (Configurable)
Over Voltage Cut- Off	270V $\pm$ 2% (Configurable)
Waveform Distortion	NIL
Changeover time	Less than 8 msec
Indications	LEDS
Power On Delay	3 sec (Configurable)
Overload Protection	MCB (Optional)
Surge Containment	Up to 6000V
Humidity Factor	10% to 90% (Non Condensing)
Operating Temperature	0° to 50° C
Ratings Single Phase	1KVA, 3KVA, 5KVA, 10KVA, 15KVA, 20KVA
Ratings Three Phase	7.5KVA, 12.5KVA, 25KVA (Power Relays) 5KVA, 11KVA, 22KVA, 37KVA, 55KVA, 75KVA, 100KVA (Power Contractors)
Single Phase Preventer for 3Phase Systems	Optional
Metering Indication	Optional

NUMAX

Tubular Batteries



Short Tubular Batteries



Model	Nominal Voltage	Capacity @ (10 hrs.)	Length in (MM)	Width in (MM)	Height in (MM)	Weight in (Kgs) ± 0.5 Kgs
6NST-60	12 V	60 AH	515	210	250	36.00
6NST-80	12 V	80 AH	515	275	255	45.00
6NST-100	12 V	100 AH	515	275	255	48.00
6NST-120	12 V	120 AH	515	275	255	50.00
6NST-150	12 V	150 AH	515	275	255	53.00



Tall Tubular Batteries

Model	Nominal Voltage	Capacity @ (10 hrs.)	Length in (MM)	Width in (MM)	Height in (MM)	Weight in (Kgs) ± 0.5 Kgs
6NTT-100	12 V	100 AH	505	190	415	54.00
6NTT-120	12 V	120 AH	505	190	415	56.00
6NTT-150	12 V	150 AH	505	190	415	59.00
6NTT-180	12 V	180 AH	505	190	415	63.00
6NTT-200	12 V	200 AH	505	190	415	67.50

We Bring forth for our customer exclusive range of tubular battery that is thick and a flat surface. These tubular battery find application in UPS & inverter and solar system and can be customized as per the requirements of our client. Available in bulk quantities, these tubular battery are designed cyclic use in tropical conditions.



OUR BRANCHES LIST :

SR.NO	STATE	LOCATION	SR.NO	STATE	LOCATION
1	ANDHRA PRADESH	ANANTAPUR	56	MADHYAPRADESH	INDORE
2	ANDHRA PRADESH	BHIMAVARAM	57	MADHYAPRADESH	JABALPUR
3	ANDHRA PRADESH	GUNTUR	58	MADHYAPRADESH	MORENA
4	ANDHRA PRADESH	KADAPA	59	MADHYAPRADESH	NARSINGHPUR
5	ANDHRA PRADESH	KAKINADA	60	MADHYAPRADESH	REWA
6	ANDHRA PRADESH	KURNOOL	61	MADHYAPRADESH	TIKAMGARH
7	ANDHRA PRADESH	ONGOLE	62	MAHARASHTRA	AURANGABAD
8	ANDHRA PRADESH	RAJAHMUNDRI	63	MAHARASHTRA	KOLHAPUR
9	ANDHRA PRADESH	SRIKAKULAM	64	MAHARASHTRA	MUMBAI
10	ANDHRA PRADESH	TANUKU	65	MAHARASHTRA	NAGPUR
11	ANDHRA PRADESH	TIRUPATHI	66	MAHARASHTRA	NANDED
12	ANDHRA PRADESH	TUNI	67	MAHARASHTRA	NASHIK
13	ANDHRA PRADESH	VIJAYAWADA	68	MAHARASHTRA	NAVI MUMBAI
14	ANDHRA PRADESH	VISHAKAPATNAM	69	MAHARASHTRA	PUNE
15	ANDHRA PRADESH	VIZIANAGARAM	70	MAHARASHTRA	SANGLI
16	ASSAM	GOWHATI	71	MAHARASHTRA	THANE
17	BIHAR	PATNA	72	ODISHA	BHUBANESHWAR
18	CHHATTISGARH	BILASPUR	73	ODISHA	SAMBALAPUR
19	CHHATTISGARH	RAIPUR	74	PONDICHERY	PONDICHERY
20	CHHATTISGARH	ROHTAS	75	PUNJAB	LUDHIYANA
21	DELHI	DELHI	76	RAJASTHAN	JAIPUR
22	GOA	GOA	77	RAJASTHAN	JALAWAR
23	GUJARAT	AHMEDABAD	78	TAMILNADU	CHENNAI
24	GUJARAT	BHAVNAGAR	79	TAMILNADU	COIMBATORE
25	GUJARAT	RAJKOT	80	TAMILNADU	ERODE
26	GUJARAT	SURAT	81	TAMILNADU	MADURAI
27	HARYANA	BAHADURGARH	82	TAMILNADU	SALEM
28	HIMACHALPRADESH	SHIMLA	83	TAMILNADU	THANJAVUR
29	JAMMU & KASHMIR	JAMMU	84	TAMILNADU	TIRUNELVELI
30	JHARKHAND	DHANBAD	85	TAMILNADU	TIRUPATHUR
31	KARNATAKA	BELLARY	86	TAMILNADU	TRICHY
32	KARNATAKA	BENGALURU	87	TAMILNADU	VELLORE
33	KARNATAKA	BIDAR	88	TAMILNADU	VILLUPURAM
34	KARNATAKA	BIJAPUR	89	TELANGANA	HYDERABAD
35	KARNATAKA	GULBARGA	90	TELANGANA	KARIMNAGAR
36	KARNATAKA	HASSAN	91	TELANGANA	KHAMMAM
37	KARNATAKA	HUBLI	92	TELANGANA	KOTHAGUDEM
38	KARNATAKA	MANAGALORE	93	TELANGANA	MAHABOBNAGAR
39	KARNATAKA	MYSORE	94	TELANGANA	MIRYALAGUDA
40	KARNATAKA	RAICHUR	95	TELANGANA	NIZAMABAD
41	KARNATAKA	SHIMOLHA	96	TELANGANA	SANGAREDDY
42	KERALA	ALAPUZHA	97	TELANGANA	SECUNDERABAD
43	KERALA	CALICUT	98	TELANGANA	WARANGAL
44	KERALA	COCHIN	99	UTTARAKHAND	RUDRAPUR
45	KERALA	KOLLAM	100	UTTARPRADESH	ALIGARH
46	KERALA	MALLAPURAM	101	UTTARPRADESH	FAROOKABAD
47	KERALA	PALAKKAD	102	UTTARPRADESH	GORAKHPUR
48	KERALA	PATHANAMTHITTA	103	UTTARPRADESH	KANPUR
49	KERALA	THRISSUR	104	UTTARPRADESH	LUCKNOW
50	KERALA	TRIVANDRUM	105	WEST BENGAL	BIRBHUM
51	MADHYAPRADESH	BETUL	106	WEST BENGAL	HOOGHLY
52	MADHYAPRADESH	BHOPAL	107	WEST BENGAL	KOLKATA
53	MADHYAPRADESH	CHINDWARA	108	WEST BENGAL	MEDINIPUR
54	MADHYAPRADESH	DAMOH	109	WEST BENGAL	SILIGURI
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