



India | Indonesia | Nepal | Nigeria | Philippines | Singapore | South Africa | Taiwan | UAE | Uganda | Vietnam

International Product Portfolio

Best Power Equipments Pvt. Ltd.

Product Introduction Line Interactive UPS

Line Interactive UPS



BPI Series (1:1) 650/1000/1200/1500/2200VA UPS

Key Features

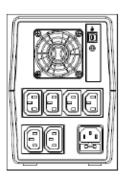
- Compact size, Plug & Play
- Built in AVR & surge suppressor
- Cold start function, Auto restart
- Inbuilt Auto shutdown software
- Overload & Battery drain protection
- LED status indicator
- Quasi sine wave
- Inbuilt RS232 port for communication in 1kVA onwards
- Optional USB port
- Universal Socket / Optional IEC sockets

Batteries:

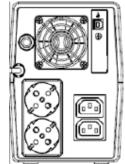
BPI650: 1x12V (7Ah, 9Ah) BPI1000/1200: 2x12V (7Ah, 9Ah) BPI1500: 2x12V (9Ah) BP2200: 24V (2x9Ah, 4x9Ah & Ext. Battery Option)



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Line Interactive UPS



UPSX Series (1-3kVA): (UPSX1101 / UPSX1102L4 / UPSX1103L4 / UPSX1103L8)

Key Features

- PWM Topology using MOSFET
- Wide Input AVR Range
- Overload & Short Circuit Protection
- Battery Deep Discharge Protection
- Up to 10A Large Charging ability for connecting external Batteries

Battery Configuration:

UPSX1101L1: 12V/24V DC UPSX1102L4: 24/36/48V DC UPSX1103L4: 24/36/48V DC UPSX1103L8: 72/96V DC



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MP Series 1-30KVA Online UPS (Rack Mount/Tower RT)

MPI Series (1:1) 1-3KVA Online UPS



Key Features

> Online double-conversion UPS
> Input power factor corrected, ≥0.99
> Output power factor 0.9
> Wide input voltage (110Vac - 300Vac)
> ECO mode for energy saving
> Online double conversion efficiency up to 94%
> Emergency power off function (EPO)

Batteries 12V:

1kVA : 3 nos. (2U) 2/3kVA : 8 nos. (2U)



POWER IS @



MPPI Series (1:1) 1-3KVA Online UPS

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Key Features

> Online double-conversion UPS
 > Input power factor corrected, ≥0.99
 > Unity output power factor (kVA=kW)
 > Wide input voltage (110Vac - 300Vac)
 > ECO mode for energy saving
 > Online double conversion efficiency up to 94%
 > Emergency power off function (EPO)



Batteries 12V:

1kVA : 3 nos. (2U) 2/3kVA : 6 nos. (2U)



MPPI Series (1:1) 4-10kVA Online UPS



Key Features

> Online double-conversion UPS
> Input power factor corrected, ≥0.99
> Unity output power factor (kVA=kW)
> Wide input voltage (110Vac - 300Vac)
> ECO mode for energy saving
> Online double conversion efficiency up to 94%
> Flexible batteries Emergency power off function (EPO)
> Adjustable charging current via LCD or software (1A~6A)



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Batteries 12V:

4,5,6,10 & 20kVA : 16-20 nos. (3U)



MPPI Series (3:3/3:1/1:1) 10-30kVA



Key Features

- > 3 level IGBT rectifier & inverter topology
- > 3U Rack and Tower Convertible
- 5 Inch Color Touch screen Display
- Dual Input Design
- > AC/AC efficiency up to 96.5%
- Output power factor 1.0
- Supports common battery bank
- Standard: RS232, USB, RS485, EPO, Dry Contact & Parallel port
- > Optional: SNMP Card, Wi-Fi Card, GPRS Card, SMS alarms
- Paralleling capability upto 4 units
- Frequency converter mode
- Can be configured as 3 Phase In / 1 Phase Out or 1 Phase In / 1
- Phase Out as per the requirement

Batteries:

10-30kVA: 32-40 Nos. (Configurable)



Product Introduction – 1 Phase UPS (Transformer-less UPS)



MSI Series 1:1 (1-10kVA)

Key Features

- > True online, double conversion PWM technology
- IGBT based Rectifier & Inverter
- Pure sine wave output
- Output power factor: 0.9
- Isolation transformer compatible
- Crest Factor 3:1
- ➤ High input power factor ≥0.99
- Static bypass and cold start
- Multiple communication SNMP, USB, RS232
- ➢ Optional IEC sockets

Batteries:

MSI1101L3 – 3 nos. MSI1101L4 – 4 nos. MSI1102L4 – 4 nos. MSI1103L6 – 6 nos. MSI1103L8 – 8 nos. MSI1106L16 – 16-20 nos. MSI1110L16 – 16-20 nos.





Control LCD Panel



MFP Series 1:1 (5-6kVA)

Key Features

- True online double conversion PWM technology
- ➤ High input power factor ≥0.99
- Unity Output PF (kVA = kW)
- Static bypass and cold start
- Compatible with Isolation transformer
- ECO mode operation
- Flexible DC link voltage (192-240V DC), Optional (120-240V DC)
- > Up to 4 units can be paralleled
- ➢ Online double conversion efficiency up to 94%
- Multiple communication SNMP, USB, RS232, Modbus & PF

Battery Configuration:

MFP1105L16 : 16-20 nos. MFP1106L16 : 16-20 nos.







MFII Series 1:1 (10kVA/kW)

Key Features

- > True online, double conversion PWM technology
- > 10kVA in 1:1 configuration
- ➢ kVA=kW, Unity PF
- ➤ High input power factor ≥0.99
- ➢ Input THDi <3%</p>
- Static bypass and cold start
- \succ Online double conversion efficiency up to 94%
- Isolation transformer compatible
- ECO mode operation
- > Up to 4 units can be paralleled (Inbuilt Paralleling)
- Multiple communication-SNMP, USB, RS232, Modbus, PFC
- Support Common battery bank

Batteries:

MFII1110L16 – 16-20 nos.(standard) & 32-40 nos. (opt.)



Product Introduction 3 Phase In 1 Out UPS (Transformer-less UPS)



MFII Series 3:1 (10kVA/kW)

Key Features

- > True online, double conversion PWM technology
- ➤ 10kVA in 3:1 configuration
- kVA=kW, Unity PF
- ➤ High input power factor ≥0.99
- ➢ Input THDi <3%</p>
- Static bypass and cold start
- Online double conversion efficiency up to 94%
- Isolation transformer compatible
- ECO mode operation
- > Up to 4 units can be paralleled (Inbuilt Paralleling)
- Multiple communication
 - SNMP, USB, RS232, Modbus, PFC
- Support Common battery bank
- ➢ 3:1 can be configured as 1:1

Flexible Batteries:

MFII3110L16 – 16-20 nos.(standard) & 32-40 nos. (opt.)





MFPII Series 3:1 (15-20kVA)

Key Features

- True online, double conversion PWM technology
- ▶ 15 & 20kVA in 3:1 configuration
- kVA=kW, Unity PF
- ➤ High input power factor ≥0.99
- ➢ Input THDi <3%</p>
- Static bypass and cold start
- \succ Online double conversion efficiency up to 94%
- Isolation transformer compatible
- ECO mode operation
- > Up to 4 units can be paralleled (Inbuilt Paralleling)
- Multiple communication
 - SNMP, USB, RS232, Modbus, PFC
- Support Common battery bank
- > 3:1 can be configured as 1:1
- ➢ 5 inch Colour Touch Screen Display

Flexible Batteries:

MFPII (15 & 20kVA) : 16-20 nos.(standard) & 32-40 nos. (opt.)



Product Introduction – 3 Phase UPS (Transformer-less UPS)



Key Features

- True online 3 Level IGBT Rectifier & Inverter Topology
- Unity output power factor (kVA=kW)
- ➢ Input THDi <3%</p>
- Emergency power OFF (EPO)
- Multiple communication SNMP+USB+RS232
- Flexible battery 32-40pcs
- Colour touch screen display
- > 3:3 Phase configuration can be configured as 3:1 or 1:1
- Online double conversion efficiency up to 95%

Flexible Batteries:

10/20/30kVA : 32~40 nos. (Configurable)









Key Features

- True online 3 Level IGBT Rectifier & Inverter Topology
- 0.9 output power factor for 10-30kVA
- Unity output power factor for 40-250kVA (kVA=kW)
- ➢ Online efficiency of 96.5%
- ECO mode operation for energy saving, efficiency >99%
- Emergency power OFF (EPO)
- Multiple communication SNMP+USB+RS232
- Input phase sequence correction & power from mains without utilizing battery
- ➢ Parallel operation up to 4 units
- ➤ 7 inch colour touch screen display

Flexible Batteries:

10/20/30kVA : 16-20 nos. (Standard) & 30-50 nos. (opt.) 40-250kVA : 30-50 nos. (Configurable)





Product Introduction – 3 Phase UPS (Transformer based UPS)

EPX+ Series (3:3) 10-160kVA-200-300-400KVA



Key Features

- Most suitable for all kinds of load
- Advance DSP control / IGBT charger(opt.)
- Inbuilt Isolation transformer.
- ➢ High output PF 0.9
- Efficiency >94%, ECO mode 99%
- ➢ N+X parallel redundancy up to 6 Units
- High MTBF (>2,00,000 hrs.)
- Intelligent self-diagnosing function
- ➤ 7" colour Touch Screen Display

Multiple communication SNMP, RS232, Modbus

Flexible Battery: 10-160kVA: 30-34 Nos. (Configurable)

More than 5000 pcs. Deployed in the field. Most rugged model



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UGX Series (3:3) 10-250kVA

Key Features

- Online double conversion 3-Level IGBT Topology
- Built-in transformer
- Output PF 1.0 (Rating >30kVA)
- ➢ Low input THDi, <3%</p>
- Efficiency >95%, ECO mode efficiency up to 99.0%
- Emergency power OFF (EPO)
- Input Phase sequence reversal protection and Still Power from Mains without going to battery mode.
- Multiple communication SNMP, RS232, RS485
- Parallel operation up to 4 units
- User friendly LCD display

Flexible Battery: 10-30kVA: 16-20Pcs (opt. 30-50 nos.) 40 to 250kVA: 30 -50 nos.



7" LCD Display

GTX Series (3:3) 120-400-500kVA

Key Features

- True online 3 Level IGBT Rectifier & Inverter Topology
- Available ratings
 - 120/160/200/250/300kVA/400KVA/500KVA
- Inbuilt galvanic isolation transformer
- ➢ Input power factor ≥0.99
- High efficiency upto 95.7%
- Input Phase sequence reversal protection and Still Power from Mains without going to battery mode
- ➢ Output power factor 0.9, Low input THDi ≤3%
- Emergency power OFF (EPO)
- High MTBF (> 200,000Hrs) and Low MTTR
- Multiple communication SNMP+USB+RS232
- Parallel operation up to 6 units

Flexible Battery: 120-500kVA: 48-52 nos.



POWER IS @





HPX Series (3:3) 500-600-800kVA



Key Features

- Most suitable for all kinds of load
- Advance DSP control / IGBT charger (Optional)
- > 12-Pulse SCR based rectifier for rugged operation
- ➢ High output PF 0.9
- > N+X parallel redundancy up to 6 Units
- ➢ High efficiency upto 95.5%
- High MTBF (>2,00,000 hrs.)
- Intelligent self-diagnosing function
- ➤ 7" colour Touch Screen Display
- Multiple communication SNMP,
- ➢RS232, Modbus

Batteries:

500 & 600kVA – 40 nos. 800kVA – 50 nos.



GTC-MW Series (3:3) 300 - 1000kVA



Key Features

- > Robust & reliable design for Industrial load applications
- DSP Technology Guarantees High Performance
- ➢ Input Power Factor ≥0.99
- Efficiency up to 96.6%, ECO mode up to 99%
- ➢ Regenerative load, High CF Load Handling Capability
- LCD Graphic display
- Load based fan speed control
- ➢ N+X Parallel redundancy upto 8 units
- Phase sequence protection, still mains operation
- Flexible DC voltage range (40~48 nos.)
- Bottom cable entry (Standard), Top cable entry (Optional)
- ➢ 8no parallelable, expandable upto 8MW

Flexible Battery:

300-1000kVA: 40-48 Nos.





Modular & Rack Mount/Tower UPS GTRT 10-60KVA

Modular UPS - PS Series

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PS12 (1:1, 3:3 or 3:1) Cabinet: 4 Slots Power Module: 4/6/10/12kVA



PS15 (3:1) Cabinet: 5 Slots Power Module: 6/10/15kVA



PS32 (3:3) Cabinet: 5/10 Slots Power Module: 16/20/25/30/32kVA



PS50 (3:3) Cabinet: 4/6/10/20 Slots Power Module: 50kVA

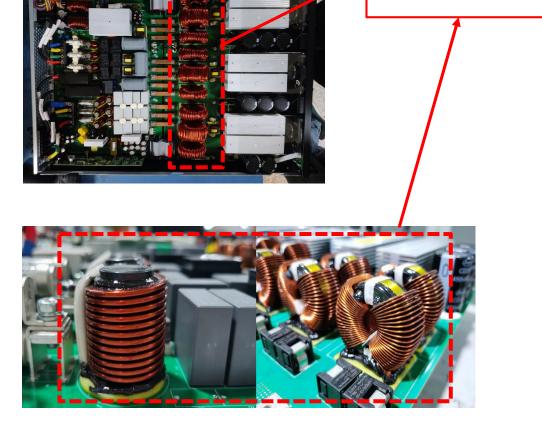


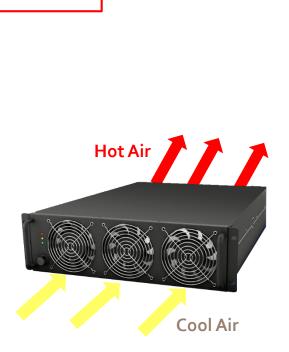
PS100 (3:3) Cabinet: 16 Slots Power Module: 100kVA











Vertical arrangement of coils

for better airflow

W x d x h : 440 x 620 x 130 (3U) Weight : 34 Kg



Centralized Monitoring Module





Unique feature :

- 1. 1&2 hot-swappable redundant UPS parameters & display settings Board
- 2. Hot-swappable Dry contact card
- 3. Hot-swappable Monitoring & communication port

Redundant Power supply boards

In PS Series modular UPS, communication centralized Module has two redundant setting and display board. In case of one goes to fault the other board will work as standby. The faulty board is hot swappable which can be replaced without shutdown of UPS. All power modules are having independent control boards and if one module fails, the other modules takes over the power and the same faulty power modules are hot-swappable for uninterrupted power. Also, it has having redundant power supply boards.... So, **100% redundant feature unique with BPE.**

ECUx2- Hot SwappableDry contacts- Hot SwappableMonitor- Hot Swappable

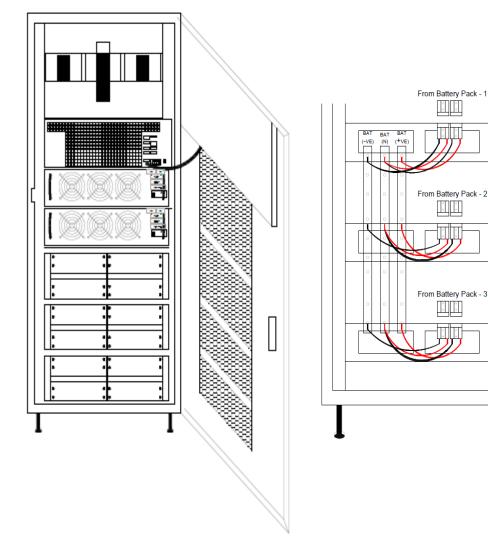


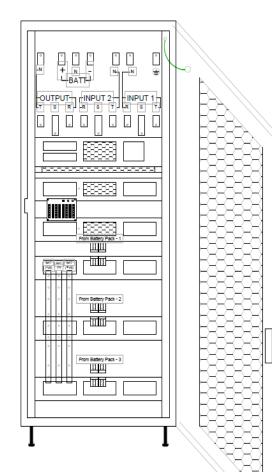
7 inch Touch Screen Display

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Modular Battery With PS UPS

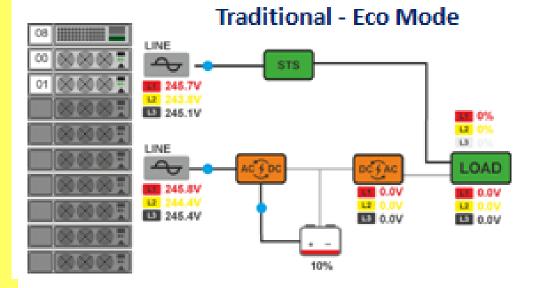




+

*Inbuilt batteries with 7Ah & 9Ah

Energy High Saver Mode (EHS)



ECO mode (Efficiency ≥99%) - Mains power

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travels from input to output through static bypass path. Here the inverter is ON but not connected to the load circuit. The static bypass path (mains power) transfers to battery / inverter mode within 2-4ms when there are some disturbances at the input mains power.

EHS - Mode Unique Technology

EHS mode (Efficiency ≥98.4%) – Inverter as well as Rectifier are in fully ready state and in sync with load and mains power to ensure the power transfer to inverter / battery mode instantly.

This meets the requirements of all mission critical applications, which do not tolerate any power break under any circumstances. Also, rectifier helps in improving input harmonics & power factor of the system.

Industrial Grade UPS (Oil, Gas & DCS Application)

OBPS Strategic Power Solution

EP IND Series 10kVA to 600kVA

Key Features

- Most suitable for all kinds of load
- Advance DSP control
- SCR/IGBT /12Pulse Rectifier
 - As per Industry requirement
- > 3Phase in 3phase out, or 3phase in Single Phase out
- ➤ 12-Pulse SCR based rectifier for rugged operation
- ➢ High output PF 0.9
- N+X parallel redundancy up to 6 Units
- 220V DC for Power system & 348V DC or optional DC
 - voltage can be designed as per spec.
- > All kind of Battery solution NICD, Lithium, etc...
- High MTBF (>2,00,000 hrs.)





POWER IS ON

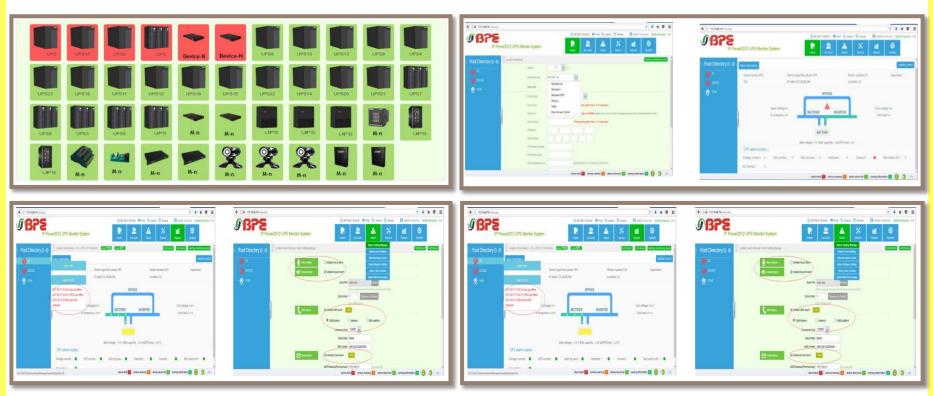
Centralized Monitoring System

(Multiple-sites UPS / Environment Monitoring Management Platform)



What is CMS?

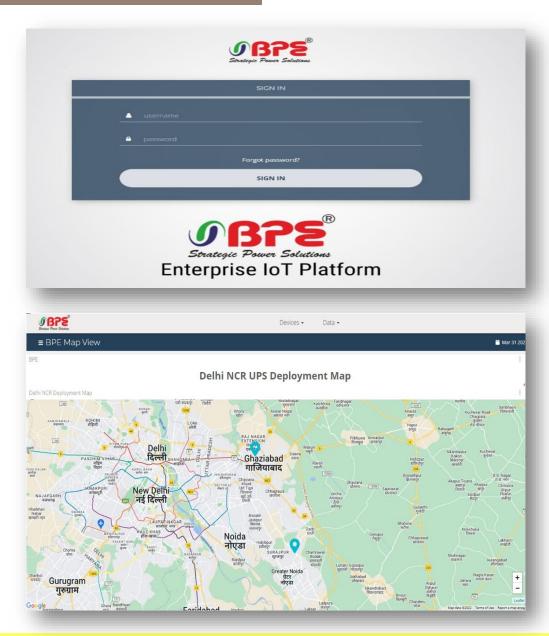
Summary UPS shall have Centralized UPS Monitoring & Management system for realtime device monitoring and notification enabling quick assessment of events as they occur in the UPS systems. Simplify management of the physical infrastructure using a centralized repository accessible from anywhere on the network through a powerful and easy to use console application. The Centralized UPS Monitoring & Management system shall have following features:-



IoT enabled BPE UPS

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IoT enabled PS Series UPS







Battery Monitoring System For SMF VRLA Batteries



Main Devices

Mainly 3 type of devices are required for the Intelligent Battery Monitoring system:-



Battery cell sensor



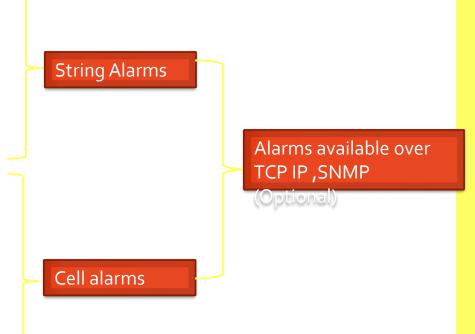
Intelligent Gateway



Battery String Sensor

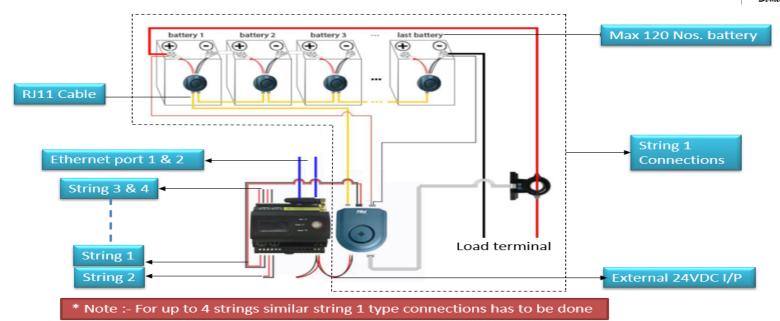
Various type of alarms :-

- 1) String current high
- 2) String current low
- 3) String voltage high
- 4) String voltage low
- 5) String SOC low
- 6) Cell voltage high
- 7) Cell voltage low
- 8) Cell impedance
- 9) Cell SOC low
- 10) Cell SOH
- 11) Cell temperature



BHMS Architecture

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Real-Time Data
 Historical Data
 Discharge Data
 Reports
 Fault Statistics
 Real-Time Alarm
 Historical Alarm
 Setting

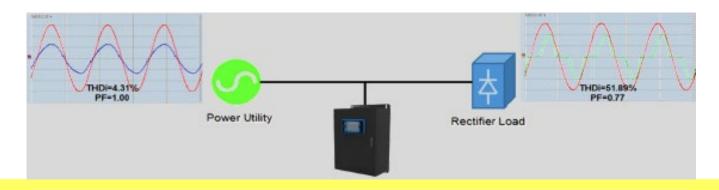
Active Power filter



Active Power filter (60~100A)

- > 3 Level IGBT Technology for Top Performances
- ➤ Wall-mounting Installation
- For Building and Industrial Applications where Space Restrictions Exist
- Compensate up to 51st Harmonics Orders
- Power Factor Correction for Both Leading and Lagging Power Factor, also input THDi
- Correct Unbalance Three Phase Utility
- > Different Current Rating Units Can Operate in Parallel
- Advanced Operations Interface: 7"Color LCD Touch Screen
- Display Voltage/Current Waveform, Parameter and Harmonic Spectrum



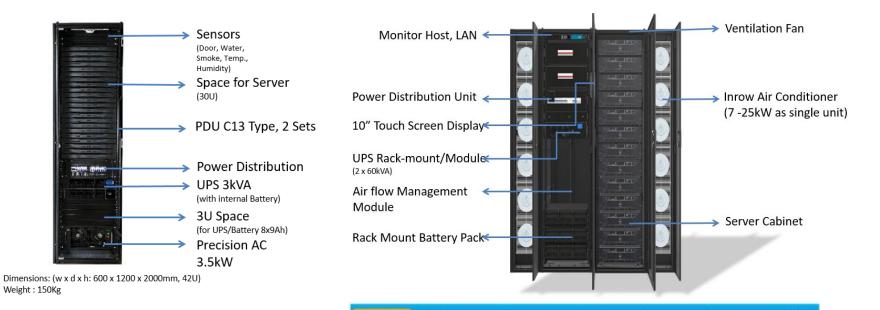


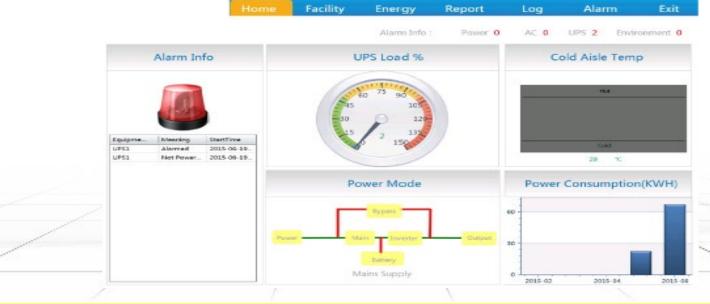
IDU Smart Racks





IDU (Smart Cabinet)







Flexible Configuration



CRAC + Power cabinet + IT cabinet + CRAC

CRAC + Power cabinet + IT cabinet + IT cabinet + IT cabinet + IT cabinet + CRAC

Energy Storage System (ESS)





Nrgx Series, 1:1, (1~7.5kVA)

Key Features

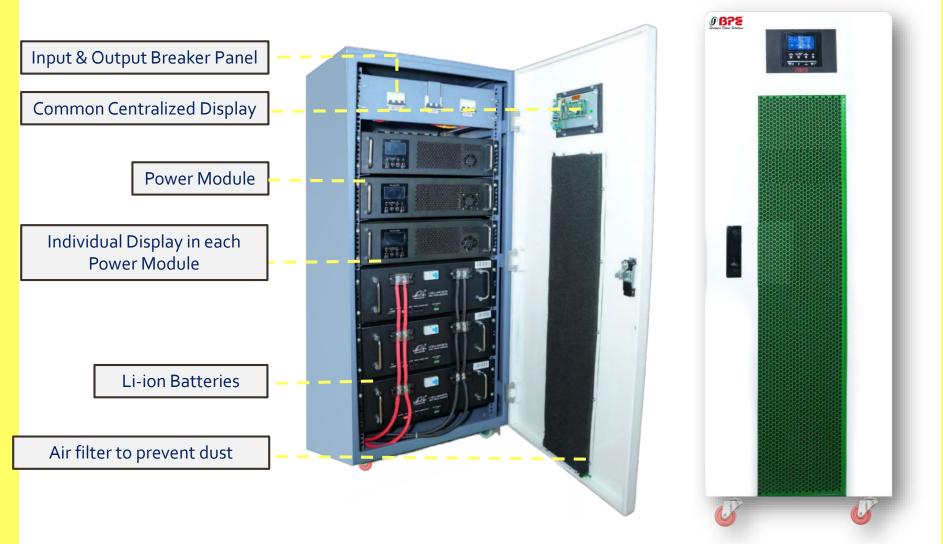
- True online, Double conversion UPS with Li-ion Battery
- Wide input voltage range (110 300Vac)
- ➤ High input power factor ≥0.99
- IGBT based Rectifier & Inverter
- High efficiency UPS (On-line mode 94%, ECO mode 99%)
- Parallel expansion up to 9 units
- 3 units can be connected & configured as 3:3 Phase
- Fast charging, 0-100% within 2-hrs.
- Manual Bypass Switch and cold start
- 1 hour back-up at 4kW load
- Solar Compatibility (Optional)
- Charging Current 60A (can be set through Display)
- > Multiple communication
 - SNMP, USB, RS232, Modbus, PFC







Nrgx Series, Higher rating – Key Features



*Power expansion upto 45kVA



Nrgx Series (75~1725kVA)

Key Features

- True online, Double conversion UPS with Li-ion Battery
- Wide input voltage range (110 300Vac)
- ➤ High input power factor ≥0.99
- IGBT based Rectifier & Inverter
- High efficiency UPS (On-line mode 94%, ECO mode 99%)
- Parallel expansion up to 9 units
- 3 units can be connected & configured as 3:3 Phase
- Fast charging, 0-100% within 2-hrs.
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- 1 hour back-up at 4kW load
- Solar Compatibility (Optional)
- Charging Current 60A (can be set through Display)
- > Multiple communication
 - SNMP, USB, RS232, Modbus, PFC



Li-ion Based Solution

Li-ion Based Solution

1-Phase solution



2x2kVA with 45 mins inbuilt LiB



1kVA with 1 hour LiB





2x10kVA with 1 hour LiB

3-Phase solution



40kVA with 45 mins LiB



500kVA with 10 mins LiB



50kVA with 10 mins LiB

247PWR Li-ion Batteries for Higher DC Voltage





BMS





BMS

192~614.4V DC

