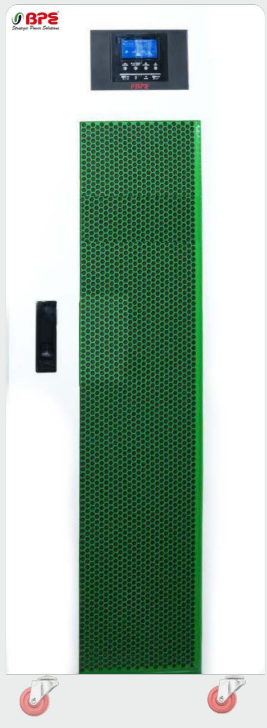
NrgX-ESS Lithium

UPS with Li-ion Battery



Features:

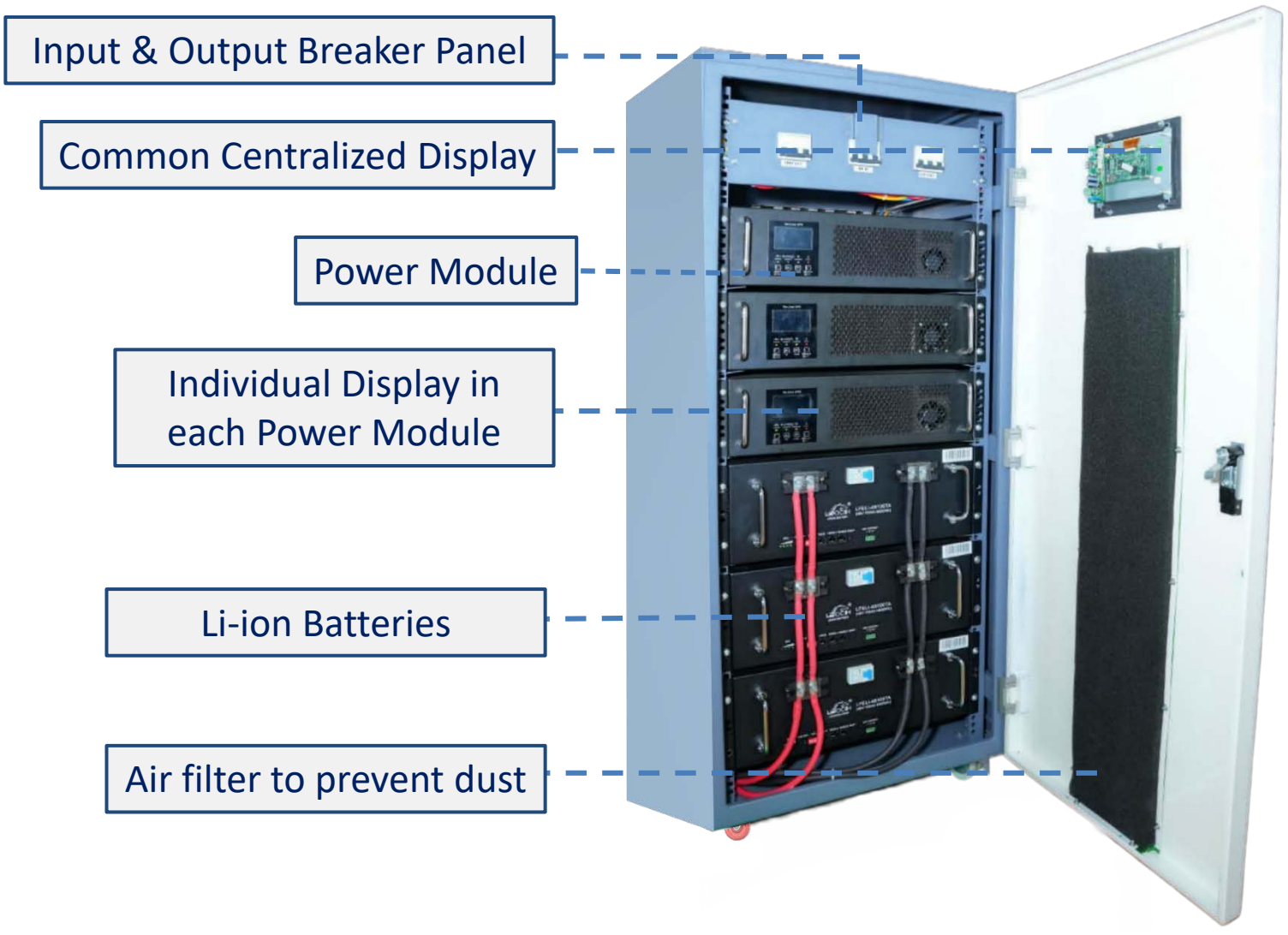
- High energy on wheels
- On Line-Double Conversion Technology (Class VFI-SS-111)
- DSP Control, flexible solution with Li-ion batteries
- Ultra High Efficiency 94.0%
- DC Bus of 48V for economical solution
- Fast Charging (Each power module with 60A charging current)
- Ability to configured as 1:1 & 3:3 (with minimum 3 power modules)
- LCD for each module with power flow diagram
- Fast swappable power modules for easy installation
- SMF Battery Compatible
- Solar Compatible

5 YEARS WARRANTY

10 YEARS DESIGN LIFE

A new Standard in ESS Technology

The NRGX-ESS^{Lithium} modular fast swappable online UPS ranging from 5kVA to 15kVA is designed to protect any critical load achieving maximum availability. The NRGX-ESS^{Lithium} series feature the latest technology of PFC input control, which guarantees ultra high efficiency of 94% and reliability. Its compact design ensures power density of 15kVA which can be configured for 1:1 & 3:3 as per demand. This solution offers the flexibility to get the back-up on demand by mounting the easy swappable batteries.



MODEL	ESS1105B	ESS1106B	ESS1110B	ESS1115B
Capacity	5.0kVA/4.5kW	6.0kVA/5.0kW	10.0kVA/9.0kW	15.0kVA/13.5kW
INPUT				
Nominal Voltage	230V AC (1Ph+N+PE, 3 Wire)			
Operating Voltage Range	110V~300V AC Load Dependent			
Operating Frequency Range	50 / 60 Hz ± 10% (Auto Sensing)			
Power Factor	≥0.99			
OUTPUT				
Output Voltage/Power Factor	230V ±5% / Unity			
Output Frequency	50/60 Hz ± 0.1 Hz Battery Mode			
Harmonic Distortion (THDv)	<3%			
Crest Factor	3:1			
Efficiency	94.0% Dual Conversion Mode, 99% ECO Mode			
BATTERY				
DC Voltage	48V DC			
Charge Current	Default : 30A, Max : 60A (Configurable)			
Typical Recharge Time	2 Hours (Approx.)			
SYSTEM FEATURES				
LCD Indication	Input Voltage/Frequency, Output Voltage/Frequency, 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			
LED Indication	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.			
Overload Capability	105-150% for 10s, >150% for 5s			
Transfer Time	AC to Battery : 0ms, Inverter to Bypass : 4ms (Typical)			
ENVIRONMENTAL				
Temperature	Operating: 0~50°C*, Storage: -15°C ~ 60°C			
Humidity / Altitude	0~95% RH Non-condersing / <1500 M			
Noise	<60dBA			
PHYSICAL				
Dimension WxDxH (mm)	570 x 700 x 1350			
Weight (Kg)	Cabinet : 75Kg Battery Module : 40Kg UPS Module : 15Kg			
STANDARDS				
Quality	ISO 9001, ISO 14001, ISO 27001, ISO 45001, ISO 50001, BIS, RoHS			
Safety / EMC / Performance	IEC/EN62040-1; IEC/EN62040-2; IEC/EN62040-3, Complying to CE			
COMMUNICATION INTERFACE				
Standard	RS-232			
LITHIUM-ION BATTERY				
Chemistry	LiFePO4			
Operating Temprature	0~55°C			
Charge/Discharge Rate	0.5C / 1.0C			

* Conditions apply

Specifications are subject to change without prior notice.

Best Power Equipments (I) Pvt. Ltd.

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