

Nrgx-ESS^{Lithium}

5kVA ~ 30kVA



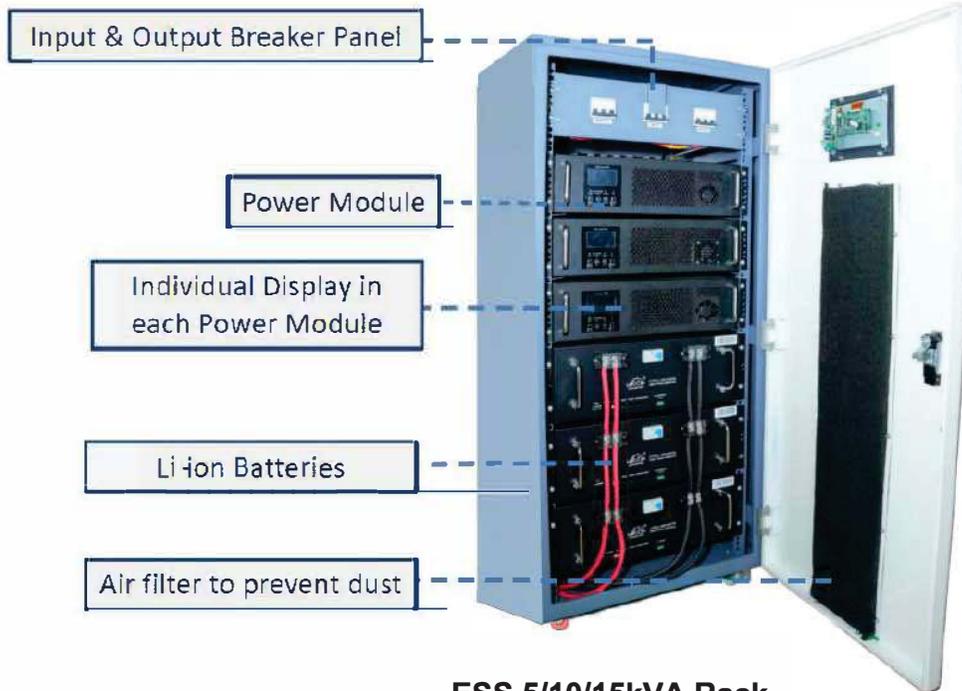
Features:

- ◆ High energy on wheels
- ◆ On Line-Double Conversion Technology, ECO Mode Available
- ◆ 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, 3:1 & 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 (MPPT Solar Charge Controller of 80A Per Module)
- ◆ Modular Architecture, each module of 5kVA/kW
- ◆ Pure Sine wave Output
- ◆ Battery Pack expandable up to 16 Nos. for more back-up time



A new Standard in ESS Technology

The NRGX-ESS^{Lithium} modular fast swappable online UPS ranging from 5kVA to 30kVA 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 30kVA which can be configured for 1:1, 3:1 & 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	ESS1110B	ESS3315B
Capacity	5.0kVA	10.0kVA	15.0kVA
INPUT			
Nominal Voltage	230V AC (1Ph+N+PE, 3 Wire)/ 400V AC (3Ph+N+PE, 5 Wire)		
Operating Voltage Range	110V~300V AC (P-N) Load Dependent		
Operating Frequency Range	50 / 60 Hz ± 10% (Auto Sensing)		
Power Factor	≥0.99		
OUTPUT			
Output Voltage/Power Factor	230V ±1% / Unity 400V ±1% / 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, 99.0% ECO Mode		
BATTERY			
DC Voltage	48V DC		
Charge Current (Per Module)	10~60A	10~120A	10~180A
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-condensing / <1500 M		
Noise	<60dBA		
PHYSICAL			
Dimension WxDxH (mm)	570 x 700 x 1350		
Weight (Kg)	Cabinet : 75Kg Battery Module : 40Kg UPS Module : 15Kg		
SOLAR CHARGER MPPT TYPE (OPTIONAL)			
Rated Power	4.5kW	9 kW	13.5 kW
PV Array MPPT Volt. Range	60~115 Vdc		
Max. Charging Current	80A Each Module		
PV Array OCV	145V DC		
STANDARDS			
Quality	ISO 9001, ISO 14001, ISO 27001, ISO 45001, ISO 50001, 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 Temperature	0~55°C		
Charge/Discharge Rate	0.5C / 1.0C		

*Conditions apply

Specifications are subject to change without prior notice.

Best Power Equipments India Pvt. Ltd.

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MODEL	ESS3320B	ESS3325B	ESS3330B
Capacity	20.0kVA	25.0kVA	30.0kVA
INPUT			
Nominal Voltage	230V AC (1Ph+N+PE, 3 Wire) / 400V AC (3Ph+N+PE, 5 Wire)		
Operating Voltage Range	110V~300V AC (P-N) Load Dependent		
Operating Frequency Range	50 / 60 Hz ± 10% (Auto Sensing)		
Power Factor	≥0.99		
OUTPUT			
Output Voltage/Power Factor	230V ±1% / 400V ±1%; PF : Unity (kVA=kW)		
Output Frequency	50/60 Hz ± 0.1 Hz Battery Mode		
Harmonic Distortion (THDv)	<3%		
Crest Factor	3:1		
Efficiency	94.0% Dual conversion Mode, 99.0% ECO Mode		
BATTERY			
DC Voltage	48V DC		
Charge Current (Per Module)	10~240 A	10~300 A	10~360 A
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-condensing / <1500 M		
Noise	<65dBA		
PHYSICAL			
Dimension WxDxH (mm)	570 x 700 x 1900		
Weight (Kg)	Cabinet : 145Kg Battery Module : 40Kg UPS Module : 15Kg		
SOLAR CHARGER MPPT TYPE (OPTIONAL)			
Rated Power	18.0 kW	22.5 kW	27.0 kW
PV Array MPPT Volt. Range	60~115 Vdc		
Max. Charging Current	80A Each Module		
PV Array OCV	145V DC		
STANDARDS			
Quality	ISO 9001, ISO 14001, ISO 27001, ISO 45001, ISO 50001, 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 Temperature	0~55°C		
Charge/Discharge Rate	0.5C / 1.0C		

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