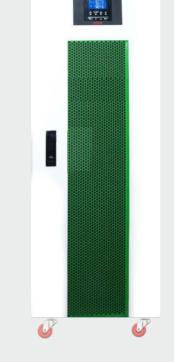


**UPS with Li-ion Battery** 



**J B75** 

## 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)

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- LCD for each module with power flow diagram
- Fast swappable power modules for easy installation
- SMF Battery Compatible
- Solar Compatible





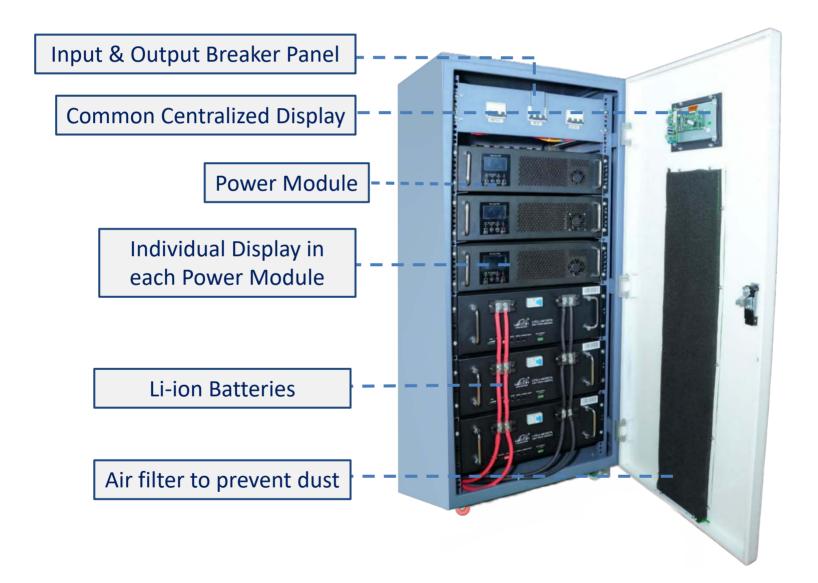






## A new Standard in ESS Technology

The NRGX-ESS<sup>Lithum</sup> modular fast swappable online UPS ranging from 5kVA to 15kVA is designed to protect any critical load achieving maximum availability. The NRGX-ESS<sup>Lithium</sup> 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.



LLD Indication         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 : Oms, Inverter to Bypass : 4ms (Typical)           ENVIRONMENTAL         Operating: 0~50°C*, Storage: -15°C ~ 60°C           Humidity / Altitude         0~95% RH Non-condersing / <1500 M           Noise         <60dBA           PHYSICAL         Cabinet: 75Kg           Dimension WxDxH (mm)         S70 x 700 x 1350           Weight (Kg)         Battery Module : 40Kg UPS Module : 15Kg           STANDARDS         UPS Module : 15Kg           Quality         ISO 9001, ISO 14001, ISO 27001, ISO 50001, BIS, RoHS           Safety / EMC / Performance         IEC/EN62040-1; IEC/EN62040-2; IEC/EN62040-3, Complying to CE           COMMUNICATION INTERFEY         Standard           Chemistry         Quality           Standard         RS-232           Chemistry         LiFePO4           Operating Temprature         0~55°C	MODEL	ESS1105B	ESS1106B	ESS1110B	ESS1115B
Nominal Voltage230V AC (1Ph-N+PE, 3 Wing)Operating frequency Range50 / 60 Hz ± 10% (Auto Sensing)Power Factor50 / 50 Hz ± 10% (Auto Sensing)Power Factor30.99OUTPUT230V ±5% / UnityOutput Voltage/Power Factor230V ±5% / UnityOutput Voltage/Power Factor230V ±5% / UnityOutput Voltage/Power Factor230V ±5% / UnityCrest Factor31Efficiency94.0% Dual Conversion Mode, 99% ECO ModeBATTERYEvoltageDC Voltage48W DCCharge CurrentDefault : 30A, Max : 60A (Configurable)Typical Recharge Time2 Hours (Approx)SYSTEM FEATURES2 Hours (Approx)LCD IndicationInput Voltage/Frequency, Output Voltage/Frequency, Battery Voltage, Load Watt/A and %, Inverter Temperature, Operation Mode such as 'On Line', 'ON Batt' or On Synass', Fault Codes, Battery & Load Bar graphLED IndicationNormal Operation, Bypass, Abnormal, Fault and Battery ModeAlarma / PotectionBatt. Low, DC High, Inverter Under/Ower Voltage, UPS Ower Load, Short Circut, Fan Failure and UPS Fault.Overload CapabilityOperating / Story Storigs - 15% - 60%CHumidity / Altitude0-95% RN Non-condersing / <1000 MI	Capacity	5.0kVA/4.5kW	6.0kVA/5.0kW	10.0kVA/9.0kW	15.0kVA/13.5kW
Operating Voltage Range         110V-300V AC Load Dependent           Operating Frequency Range         50 / 60 Hz 2 10% (Auto Sensing)           Power Factor         20.99           Output/         230V 45% / Unity           Output/ Voltage/Power factor         230V 45% / Unity           Output Voltage/Power factor         230V 45% / Unity           Output Frequency         30000 Hz ± 0.1 Hz Battery Mode           Harmonic Distortion (HDD)         43%           Crest Factor         3.1           Efficiency         94.0% Dual Conversion Mode, 99% ECO Mode           BatTERY         Default: 30A, Max : 60A (Configurable)           Typical Recharge Time         2 Hours (Approx.)           SYSTEM FATURES         2 Hours (Approx.)           UCD Indication         Input Voltage/Frequency, Output Voltage/Frequency, Battery Voltage, Load Wett/VA and %, Inverter Temperature, Operation Mode such as 'on Line', 'ON Batt' or On Spapas', Fault Code, 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 5           Enserture         Operating: 0-50°C', Storge: -15°C - 60°C           Humidhy / Altrude         0-95% KR Non-condensing / 1500 M           Noise         -600BA           PHYS	INPUT				
Operating Frequency Range         50 / 60 Hz ± 10% (Auto Sensing)           Power Factor         >0.99           OUTPUT         2307 ±5% / Unity           Output Voltage/Power Factor         33%           Crest Factor         3:1           Efficiency         94.0% Dual Conversion Mode, 99% ECO Mode           BATTENY         DC Voltage           Charge Current         Default : 30A, Max : 60A (Configurable)           Typical Recharge Time         2 Hours (Approx.)           SYSTEM FEATURES         UD Indication           LCD Indication         Input Voltage/Frequency, Output Voltage/Frequency, Battery Voltage, Load Matt/VA and %, Inverter Temperature, Operatior Modes auch as 'On Line', 'ON Batt' or On 'Bypass', Fault Codes, Battery Mode           Alarms / Protection         Batt. Low, DC High, Inverter Under/Over Voltage, UPS Over Load, Short Circuit, Fan Failure and UPS Fault.           Overload Capability         105-15/05 for 15 s           Transfer Time         AC to Battery : Oms, Inverter to Bypass : 4ms (Typical)           ENVIRONMENTAL         Operating: 0-50°C't, Storage: -15°C - 60°C           Fumidity / Altude         0-55% K H Non-condersing / <1500 M	Nominal Voltage	230V AC (1Ph+N+PE, 3 Wire)			
Power Factor         20.99           OUTEVT         230V ±5% / Unity           Output Violage/Power Factor         230V ±5% / Unity           Output Frequency         50/60 Hz ± 0.1 Hz Battery Mode           Harmonic Distortion (THDv)         <3%	Operating Voltage Range	110V~300V AC Load Dependent			
OUTPUT         230V 45% / Unity           Output Voltage/Power Factor         230V 45% / Unity           Output Frequency         50/60 Hz 4 0.1 Hz Battery Mode           Hammonic Distortion (THDV)         43%.           Crest Factor         3.1           Efficiency         94.0% Dual Conversion Mode, 99% ECO Mode           BATTERY         Default : 30A, Max : 60A (Configurable)           Typical Recharge Time         2 Hours (Approx.)           SYSTEM FEATURES         2 Hours (Approx.)           SYSTEM FEATURES         Input Voltage/Frequency, Output Voltage/Frequency, Battery Voltage, Load Watt/VA and %, Inverter Temperature, Operation Mode such as "On Line", 'ON Batt' or On "Sypass", Fault Codes, Battery & Load Bar graph           LED Indication         Input Voltage/Frequency, Dutput Voltage/Frequency, Battery Voltage, LOAd Watt/VA and %, Inverter Temperature, Operation Mode such as "On Line", 'ON Batt' or On "Sypass", Fault Codes, Battery & Load Bar graph           LED Indication         Batt. Low, DC High, Inverter Under/Over Voltage, USS Over Load, Short Circuit, Fan Failure and UPS Fault.           Overload Capability         105-150% for 10s, 150% for 5s           Transfer Time         AC to Battery : Oms, Inverter to Bypass : Haut Code, Short Circuit, Fan Failure and UPS Fault.           Noise         <600BA	Operating Frequency Range	50 / 60 Hz ± 10% (Auto Sensing)			
Output Voltage/Power Factor         230V ±5% / Unity           Output Frequency         50/60 Hz ± 0.1 Hz Battery Mode           Harmonic Distortion (THDv)         <3%	Power Factor	≥0.99			
Output Frequency         50/60 Hz ± 0.1 Hz Battery Mode           Harmonic Distortion (THDV)         <3%	OUTPUT				
Harmonic Distortion (THDv)         <3%	Output Voltage/Power Factor	230V ±5% / Unity			
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         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         Input Voltage/Frequency, Output Voltage, Irequency, 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           Alarrs / 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         Operating: 0-50°C', 'Storage: -15°C - 60°C           Humidity / Altitude         0-95% RH Non-condersing / <1500 M	Output Frequency	50/60 Hz ± 0.1 Hz Battery Mode			
Efficiency         94.0% Dual Conversion Mode, 99% ECO Mode           BATTERY            DC Voltage         48V DC           Charge Current         0           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         Input Voltage/Frequency, Output Voltage, JPS over Load, Short Circuit, Fan Failure and UPS Fault.           Overload Capability         0           Tansfer Time         3000000000000000000000000000000000000	Harmonic Distortion (THDv)	<3%			
BATTERY         Alter of the second seco	Crest Factor	3:1			
DC Voltage         48V DC           Charge Current         Default : 30A, Max : 60A (Configurable)           Typical Recharge Time         2 Hours (Approx.)           SYSTEM FEATURES         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         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         Input Voltage/Frequency, Output Voltage, /Frequency, Battery Voltage, UPS Over Load, Short Circuit, Fan Failure and UPS Fault.           LED Indication         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 : Ons, Inverter to Bypass : 4ms (Typical)           ENVIRONMENTAL         Operating: 0~50°C*, Storage: -15°C ~ 60°C           Humidity / Altitude         0~95% RH Non-condersing / -1500 M           Noise         - 60dBA           PHYSICAL         Cabinet: 75Kg           Dimension WxDxH (mm)         570 x 700 x 1350           Weight (Kg)         ISO 9001, ISO 14001, ISO 27001, ISO 50001, BIS, RoHS           Safetory EMC / Performance	Efficiency	94.0% Dual Conversion Mode, 99% ECO Mode			
Charge Current         Default : 30A, Max : 60A (Configurable)           Typical Recharge Time         2 Hours (Approx.)           SYSTEM FEATURES         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         Input Voltage/Frequency, Dutput Voltage, UPS Nover Load, Short Circuit, Fan Failure and UPS Fault.           LED Indication         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 : Oms, Inverter to Bypass : Ams (Typical)           ENVIROMENTAL         Persentario: Operating: 0~50°C*, Storage: -15°C ~ 60°C           Humidity / Altitude         0-95% RH Non-condersing / <1500 M	BATTERY				
Typical Recharge Time         2 Hours (Approx.)           SYSTEM FEATURES         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         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 : Oms, Inverter to Bypass : 4ms (Typical)           ENVIRONMENTAL         Imperature           Temperature         Operating: 0-:50°C*, Storage: -15°C ~ 60°C           Humidity / Altitude         0-:95% RH Non-condersing / <1500 M	DC Voltage	48V DC			
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 : Oms, Inverter to Bypass : 4ms (Typical)           ENVIRONMENTAL         Imperature           Temperature         Operating: 0~50°C*, Storage: -15°C ~ 60°C           Humidity / Altitude         0~95% RH Non-condersing / <1500 M	Charge Current	Default : 30A, Max : 60A (Configurable)			
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 : Oms, Inverter to Bypass : 4ms (Typical)           ENVIRONMENTAL         Enverter           Temperature         Operating: 0~50°C*, Storage: -15°C ~ 60°C           Humidity / Altitude         0~95% RH Non-condersing / <1500 M	Typical Recharge Time	2 Hours (Approx.)			
LLD Indication         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 : Oms, Inverter to Bypass : 4ms (Typical)           ENVIRONMENTAL         Operating: 0~50°C*, Storage: -15°C ~ 60°C           Humidity / Altitude         0~95% RH Non-condersing / <1500 M	SYSTEM FEATURES				
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     Operating: 0~50°C*, Storage: -15°C ~ 60°C       Humidity / Altitude     0~95% RH Non-condersing / <1500 M	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			
Overload Capability         105-150% for 10s, >150% for 5s           Transfer Time         AC to Battery : 0ms, Inverter to Bypass : 4ms (Typical)           ENVIRONMENTAL         Operating: 0~50°C*, Storage: -15°C ~ 60°C           Humidity / Altitude         0~95% RH Non-condersing / <1500 M	LED Indication	Normal Operation, Bypass, Abnormal, Fault and Battery Mode			
Transfer Time       AC to Battery : 0ms, Inverter to Bypass : 4ms (Typical)         ENVIRONMENTAL       Operating: 0~50°C*, Storage: -15°C ~ 60°C         Humidity / Altitude       0~95% RH Non-condersing / <1500 M	Alarms / Protection	Batt. Low, DC High, Inverter Under/Over Voltage, UPS Over Load, Short Circuit, Fan Failure and UPS Fault.			
ENVIRONMENTAL           Temperature         Operating: 0~50°C*, Storage: -15°C ~ 60°C           Humidity / Altitude         0~95% RH Non-condersing / <1500 M	Overload Capability	105-150% for 10s, >150% for 5s			
TemperatureOperating: 0~50°C*, Storage: -15°C ~ 60°CHumidity / Altitude0~95% RH Non-condersing / <1500 M	Transfer Time	AC to Battery : 0ms, Inverter to Bypass : 4ms (Typical)			
Humidity / Altitude       0~95% RH Non-condersing / <1500 M	ENVIRONMENTAL				
Noise       <60dBA	Temperature	Operating: 0~50°C*, Storage: -15°C ~ 60°C			
PHYSICAL       Dimension WxDxH (mm)       570 x 700 x 1350         Weight (Kg)       Cabinet : 75Kg Battery Module : 40Kg UPS Module : 40Kg         Quality       ISO 9001, ISO 14001, ISO 27001, ISO 50001, BIS, RoHS         Safety / EMC / Performance       IEC/EN62040-1; IEC/EN62040-2; IEC/EN62040-3, Complying to CE         COMMUNICATION INTERFACE       Standard         Standard       RS-232         LITHIUM-ION BATTERY       LiFePO4         Operating Temprature       0~55°C	Humidity / Altitude	0~95% RH Non-condersing / <1500 M			
Dimension WxDxH (mm)       570 x 700 x 1350         Weight (Kg)       Cabinet : 75Kg Battery Module : 40Kg UPS Module : 15Kg         STANDARDS       UPS Module : 15Kg         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       Safety         Standard       RS-232         LITHIUM-ION BATTERY       LiFePO4         Operating Temprature       0~55°C         Channe Dickerse Determine       E	Noise	<60dBA			
Weight (Kg)Cabinet : 75Kg Battery Module : 40Kg UPS Module : 15KgSTANDARDSQualityISO 9001, ISO 14001, ISO 27001, ISO 45001, ISO 50001, BIS, RoHSSafety / EMC / PerformanceIEC/EN62040-1; IEC/EN62040-2; IEC/EN62040-3, Complying to CECOMMUNICATION INTERFACEStandardRS-232LITHIUM-ION BATTERYLiFePO4ChemistryLiFePO4Operating Temprature0~55°C	PHYSICAL				
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         Standard       RS-232         LITHIUM-ION BATTERY       LiFePO4         Operating Temprature       0~55°C	Dimension WxDxH (mm)	570 x 700 x 1350			
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	Weight (Kg)	Battery Module : 40Kg			
Safety / EMC / Performance       IEC/EN62040-1; IEC/EN62040-2; IEC/EN62040-3, Complying to CE         COMMUNICATION INTERFACE       Standard         Standard       RS-232         LITHIUM-ION BATTERY       LiFePO4         Operating Temprature       0~55°C         Chemes / Discharges Date       Lifepoint	STANDARDS				
COMMUNICATION INTERFACE         Standard         Standard         RS-232         LITHIUM-ION BATTERY         Chemistry         LiFePO4         Operating Temprature       0~55°C         Chemistry	Quality	ISO 9001, ISO 14001, ISO 27001, ISO 45001, ISO 50001, BIS, RoHS			
Standard     RS-232       LITHIUM-ION BATTERY     LiFePO4       Chemistry     LiFePO4       Operating Temprature     0~55°C	Safety / EMC / Performance	IEC/EN62040-1; IEC/EN62040-2; IEC/EN62040-3, Complying to CE			
LITHIUM-ION BATTERY Chemistry LiFePO4 Operating Temprature 0~55°C Chemes (Discharge Date	COMMUNICATION INTERFA	CE			
Chemistry LiFePO4 Operating Temprature 0~55°C	Standard	RS-232			
Chemistry LiFePO4 Operating Temprature 0~55°C	LITHIUM-ION BATTERY				
Operating Temprature 0~55°C		LiFePO4			
	-	0~55°C			
		0.5C / 1.0C			

\* Conditions apply

Specifications are subject to change without prior notice.

