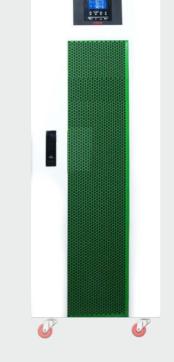


UPS with Li-ion Battery



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





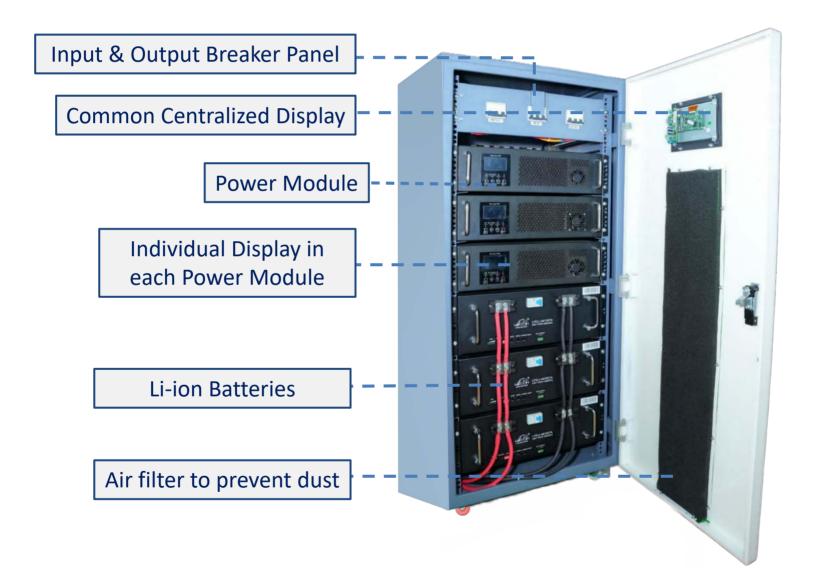






A new Standard in ESS Technology

The NRGX-ESS^{Lithum} 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.



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.

