LESSO



LES-4kW

Residential Off-grid Inverter with MPPT

Feature:

- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function

Product Model		LES-402A2AF-TFE
AC input	Rated input power	4000W
	Maximum input current	29.1A
	Rated input voltage	220VAC/230VAC/240VAC
	Input voltage range	90-280VAC±3V(APL Mode) 170-280VAC±3V(UPS Mode)
	Rated input frequency	50Hz/60Hz, Auto Adaptive

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Residential Off-grid Inverter with MPPT

Product Model		LES-402A2AF-TFE
Inverter output	Inverter rated power	4000W
	Peak power	8000VA@100ms
	Rated output current	17.4A
	Output voltage level	220VAC/230VAC/240VAC+5%
	Output voltage waveform	Pure Sine Wave
	Inverter output frequency level	50/60Hz±0.1%
	Switch time	Response Time for Inverter-to-Mains Switchover:≤20ms; Response Time for Mains-to-Inverter Switchover:≤20ms;
PV input (DC)	Max. input power	5000W
	Max.input voltage	500VDC
	Maximum input current of PV	18A
	Maximum short-circuit current of PV	27A
	MPPT voltage range	60VDC-500VDC
	Number of MPPTS	1
	Number of strings per MPPT	1
Battery input (DC)	Battery type	Lithium Battery / Lead-acid Battery
	Voltage range	21-30VDC
	Rated voltage	24VDC
	Max. charging current	120A
	Max. discharging current	165A
Efhciency	Maximum inversion efficiency	98%
	No-load loss	≤65W
Environment parameters	Opereating temperature	-10°C~+40°C
	Storage temperature	-15°C~+60°C
	Relative humidity	20%~95%, (No condensation)
	Altitude	Altiude Not Over 1000m,Derating over 1000m,Max 4000m, Refer to IEC62040
	Ingress protection	IP21
Mechanical parameters	Package size (H×W×D)	510×420×207mm
	Gross weight	9.55kg
	Machine size (H×W×D)	436×330×138mm
	Net weight	8.11kg
Others	Display	LCD
	Communication with BMS	RS485
	Communication with protal	RS232/Mobile APP/ Webpage (WIFI Monitoring) (Optional)
	Thermal method	Mains Overcurrent Protection / Mains Overvoltage Protection / Mains Undervoltage Protection / Mains Overfrequency Protection / Mains Underfrequency Protection / Mains Bypass Overload Protection / Battery Overvoltage Protection / Battery Over-discharge Protection / PV Current Limiting Protection / PV Power Limiting Protection / Device Overheat Protection / Load Output Short-circuit Protection / Inverter Output Overload Protection

Remarks: Specifications are subject to change without notice

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LES-6.2kW



Residential Off-grid Inverter with MPPT

Feature:

- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel operation with up to 6 units (optional)

Product Model		LES-622A4BF-TF
AC input	Rated input power	6200W
	Maximum input current	40A
	Rated input voltage	220VAC/230VAC/240VAC
	Input voltage range	90-280VAC±3V(APL Mode) 170-280VAC±3V(UPS Mode)
	Rated input frequency	50Hz/60Hz, Auto Adaptive

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Residential Off-grid Inverter with MPPT

Product Model		LES-622A4BF-TF
Inverter output	Inverter rated power	6200W
	Peak power	12400VA@100ms
	Rated output current	26.9A
	Output voltage level	220VAC/230VAC/240VAC±5%
	Output voltage waveform	Pure Sine Wave
	Inverter output frequency level	50/60Hz±0.1%
	Switch time	Response Time for Inverter-to-Mains Switchover:≤20ms; Response Time for Mains-to-Inverter Switchover:≤20ms
PV input (DC)	Max. input power	6200W
	Max.input voltage	500VDC
	Maximum input current of PV	27A
	Maximum short-circuit current of PV	36A
	MPPT voltage range	60VDC-500VDC
	Number of MPPTS	1
	Number of strings per MPPT	1
Battery input (DC)	Battery type	Lithium Battery / Lead-acid Battery
	Voltage range	42-60VDC
	Rated voltage	48VDC
	Max. charging current	120A
	Max. discharging current	143A
Efficiency	Maximum inversion efficiency	98%
	No-load loss	≤65W
Environment parameters	Opereating temperature	-10°C~+50°C
	Storage temperature	-15°C~+60°C
	Relative humidity	20%~95% (No condensation)
	Altitude	Altiude Not Over 1000m, Derating over 1000m, Max 4000m, Refer to IEC62040
	Ingress protection	IP21
Mechanical parameters	Package size (H×W×D)	565×397×200mm
	Gross weight	11.57kg
	Machine size (H×W×D)	495×312×125mm
	Net weight	10.33kg
Others	Display	LCD
	Communication with BMS	RS485
	Communication with protal	RS232/Mobile APP/ Webpage(WIFI Monitoring)(Optional)
	Parallel function	Parallel operation models are available. Standard configuration: 6 units, maximum parallelable units: 9
	Thermal method	Cooling fan in intelligent control
	Defencive function	Mains Overcurrent Protection / Mains Overvoltage Protection / Mains Undervoltage Protection / Mains Overfrequency Protection / Mains Underfrequency Protection / Mains Bypass Overload Protection / Battery Overvoltage Protection / Battery Over-discharge Protection / PV Current Limiting Protection / PV Power Limiting Protection / Device Overheat Protection / Load Output Short-circuit Protection / Inverter Output Overload Protection
	Certification	EN-IEC60335-1, ENEC60335-2-29, EC62109-1

Remarks: Specifications are subject to change without notice

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LEC-6.2kW

Residential Hybrid Inverter

LEC-6.2kW delivers superior power capacity and intelligent energy management for high-demand residences. This advanced hybrid inverter solution combines robust 6.2kW output with cutting-edge efficiency to maximize solar self-consumption, significantly reduce electricity costs, and provide instantaneous backup power during grid failures.

- **6.2kW Continuous (12.4kW Peak) Output**
- **MPPT with 99.9% Efficiency**
- **120A Hyper-Fast Battery Charging**
- **Smart 4-Stage Energy Scheduling**
- **10ms Seamless Backup Transition**
- **Silent Indoor Operation**

Model	LEC-622A4B2F-TF
PV Input	
Max input voltage	500Vdc
Isc PV(absolute Max.)	36A
Max input current	27A
Number of MPPT channels	1
MPPT range	60Vdc-500Vdc
Vdc range @full power	360Vdc-430Vdc
Max input PV power	8500W
Battery (charge/discharge)	
Battery type	Li-ion / Lead-acid / User-defined
Rated norma voltage(Range)	42Vdc-60Vdc
Rated battery voltage	48V
Max charge/discharge current	120A/143A
Max charge/discharge power	5760W/6900W
AC Grid (input and output)	
Rated AC voltage	220/230/240Vac (Single phase)
AC input voltage(Range)	90-280V±3V(APL Mode) 170-280V±3V(UPS Mode)
Rated frequency	50Hz/60Hz
Bypass over current	26.9A
AC Load Output (stand alone)	
Rated voltage	220/230/240Vac (Single phase)
Rated frequency	50Hz/60Hz
Rated current	26.9A
Rated output power	6200W
P-P output power	12400W
Load capacity of motors	2000W
Overload capablility (off grid)	Battery Mode: 11s@105%~150% Load; 2s@150%~200% Load; 400ms@>200% Load
Output power factor (off grid)	1.0@Resistive Load
Others	
Ingress protection	IP21
Operating temperature	-10°C~50°C
Package size (H×W×D)	560×382×215mm
Gross weight	13.1kg
Machine size (H×W×D)	465×313×135mm
Net weight	11.6kg
Altitude	Altiude Not Over 1000m, Derating over 1000m, Max 4000m, Refer to IEC62040
Cooling method	Built-in fan
Commication	
Embedded interfaces	RS485 / RS232 / Dry contact
External modules(optional)	WiFi

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LEC-10kW

Residential Hybrid Inverter



LEC-10kW delivers superior power capacity and intelligent energy management for high-demand residences. This advanced hybrid inverter solution combines robust 10kW output with cutting-edge efficiency to maximize solar self-consumption, significantly reduce electricity costs, and provide instantaneous backup power during grid failures.

- **10kW Continuous (20kW Peak) Output**
- **Dual MPPT with 99.9% Efficiency**
- **200A Hyper-Fast Battery Charging**
- **Smart 4-Stage Energy Scheduling**
- **10ms Seamless Backup Transition**
- **Silent Indoor Operation**

LESSO

Residential Hybrid Inverter

Model	LEC-103A3B2F
PV Input	
Max input voltage (V)	500
Isc PV (A)	28.75/28.75
Max input current (A)	23/23
Number of MPPT channels	2
MPPT range (Vdc)	125-435
Vdc range @ full power (Vdc)	240-425
Max input PV power (VA)	16000
Battery (charge/discharge)	
Battery type	Li-ion / Lead-acid / User-defined
Rated norma voltage (Range) (Vdc)	48V(40-60V)
Rated battery voltage (V)	48
Max charge/discharge current (A)	200
Max charge/discharge power (W)	10000
AC Grid (input and output)	
Rated AC voltage (Vac)	230(Single phase)
AC input voltage (Range) (Vac)	90-275
Rated frequency (Hz)	50/60
Bypass over current (A)	60
AC Load Output (stand alone)	
Rated voltage (VAC)	230(Single phase)
Rated frequency (Hz)	50/60
Rated current (A)	45
Rated output power (W)	10000
P-P output power (W)	15000
Load capacity of motors	6HP
Overload capablility (off grid)	After triggering the overload protection the inverter will resume output after 3 minutes, 5 consecutive overloads will switch off the output until the inverter is restarted. (102%<load< load < 125%): error and output shutdown after 10s. Load > 125%: error reported and output switched off after 5s.
Output power factor (off grid)	0.8 leading to 0.8 lagging
Others	
Ingress protection (IP)	IP20, indoor only
Temperature (°C)	-10~55°C, >45°C derated (14~131°F, >113°F derated)
Inverter isolation	Non-isolated PV-AC, High frequency isolated (Battery side)
Dimensions D*W*H (mm)	620*445*130
Weight (kg)	27
Altitude (m)	2000
Cooling method	Built-in fan
Commication	
Embedded interfaces	RS485/CAN/USB/Dry contact
External modules (optional)	WiFi/GPRS

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LEC-8kW

Residential Hybrid Inverter



The LEC-8kW delivers a powerful and adaptive solution for residential solar storage, combining high efficiency, robust protection, and intelligent energy management. Designed for homes in high electricity-cost regions, it maximizes solar self-consumption, slashes energy bills, and ensures uninterrupted backup power during outages.

190A Ultra-Fast Charge/Discharge
Manage heavy loads instantly

Industry-Leading IP66 Protection
Dustproof, waterproof, install anywhrer

Scale to 6 Units in Parallel
Expand power seamlessly for grid/off-grid

4-Stage Smart Charging
Cut costs via customizable energy schedules

Universal Battery Compatibility
Support lead-acid/lithium-iron battery

Remote & Touchscreen Control
Monitor and adjust via 4G/WiFi or touchscreen

Product Model	LEC-802A3BD-AT
PV Input	
Max PV (Vdc) (absolute Max.)	500V
Isc PV (absolute Max.) (A)	37.5/22.5
Max. PV input current/strings (A)	30A/18A
Number MPPT trackers	2
MPPT range (Vdc)	150~450
Vdc range @ full power (Vdc)	240~425
PV Max (W)	16000
Battery (charge/discharge)	
Battery type	Li-ion/Lead-acid
Battery norma voltage (Range) (Vdc)	48V(44-57V)
Max charge/discharge current (A)	190
Max charge/discharge Power (W)	8000
AC Grid (input and output)	
Normal AC voltage (VAC)	230(single phase)
Frequency (Hz)	50/60
Max.cont output current (A)	40
Max.cont output power (W)	8000
Max.cont apparent power (VA)	8800
Power factor (adjustable)	0.8 leading to 0.8 lagging
AC Load Output (stand alone)	
Normal voltage (VAC)	220/230(single phase)
Frequency (Hz)	50/60
Nominal curent (A)	40
Max.cont power (W)	8000
Overload capability (off grid)	>200% for 15 sec
Output power factor (off grid)	1~(0.8 leading to 0.8 lagging)
Output current harmonic distortion	THD<3%(Nonlinear load); THD<1.5%(Linear load)
Others	
Ingress protection (IP)	IP66
Protective class	Class I
Temperature (°C)	-25°C~+60°C
Inverter isolation	Non-isolated PV- AC; High frequency isolated(Battery Side)
Overvoltage category	OVC III (AC Main), OVC II (PV)
Package size (H×W×D) (mm)	615×485×285
Gross weight (kg)	26
Machine size (H×W×D) (mm)	554×427×198
Net weight (kg)	20
Altitude (m)	2000

Remarks: Specifications are subject to change without notice; Special voltage and power requirements can be customized designed

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LEC-12kW

Residential Hybrid Inverter



The LEC-12kW stands out as a top-tier choice in the residential and light commercial hybrid inverter market, combining industrial-grade durability with intelligent energy management. Designed for homes, villas, and small enterprises in high electricity-cost regions, it maximizes solar self-consumption, slashes energy bills, and delivers zero-carbon resilience.

250A Ultra-Fast Charge/Discharge
Manage heavy loads instantly

Industry-Leading IP66 Protection
Dustproof, waterproof, install anywhrer

Scale to 6 Units in Parallel
Expand power seamlessly for grid/off-grid

6-Stage Smart Charging
Cut costs via customizable energy schedules

Universal Battery Compatibility
Support lead-acid/lithium-iron battery

Remote & Touchscreen Control
Monitor and adjust via 4G/WiFi or touchscreen

Product Model	LEC-123B3BD-AT
PV Input	
Max PV (Vdc) (absolute Max.)	1000V
Isc PV (absolute Max.) (A)	45A/22.5A
Max. PV input current/strings (A)	36A/18A
Number MPPT trackers	2
MPPT range (Vdc)	200~800
Vdc range @ full power (Vdc)	350~800
PV Max (W)	24000
Battery (charge/discharge)	
Battery type	Li-ion/Lead-acid
Battery norma voltage (Range) (Vdc)	48V(40-60V)
Max charge/discharge current (A)	250
Max charge/discharge Power (W)	12000
AC Grid (input and output)	
Normal AC voltage (VAC)	380/400(3W+N+PE)
Frequency (Hz)	50/60
Max.cont output current (A)	20
Max.cont output power (W)	12000
Max.cont apparent power (VA)	13200
Power factor (adjustable)	0.8 leading to 0.8 lagging
AC Load Output (stand alone)	
Normal voltage (VAC)	380/400(3W+N+PE)
Frequency (Hz)	50/60
Nominal curent (A)	20
Max.cont power (W)	12000
Overload capability (off grid)	>200% for 15sec
Output power factor (off grid)	1~(0.8 leading to 0.8 lagging)
Output current harmonic distortion	THD<3%(Nonlinear load); THD<1.5%(Linear load)
Others	
Ingress protection (IP)	IP66
Protective class	Class I
Temperature (°C)	-25°C~+60°C
Inverter isolation	Non-isolated PV- AC; High frequency isolated(Battery Side)
Overvoltage category	OVC III (AC Main), OVC II (PV)
Package size (H×W×D) (mm)	760×540×365
Gross weight (kg)	43.2
Machine size (H×W×D) (mm)	683×475×256
Net weight (kg)	38
Altitude (m)	2000

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Battery Module

LSMO Battery Module be mainly used in electric vehicles, electric mobility; Solar/wind energy storage system; UPS, backup power; Telecommunication; Medical equipment; Lighting.

Features

Longer Cycle Life

life than lead acid battery, helping to minimize replacement cost and reduce total cost of owner.

Lighter Weight

About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

Higher Power

Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

Superior Safety

Automatic protection with internal battery management system.

Increased Flexibility

Modular design enables deployment of up to two batteries in series and up to four batteries in parallel.

Wider Temperature Range

-20°C~60°C

Items	LSMO 25.6V120AH-ZY
Nominal voltage	25.6V
Voltage range	25.6V~26.4V
Nominal capacity	120Ah
Minimum capacity	120Ah
Initial impedance	≤180mΩ
Charge limit voltage	28.8V
Discharge cut-off voltage	18.4V
Standard charge current	50A
Maximum charge current	100A
Standard discharge current	50A
Max continuous discharge current	100A
Charging time	Standard charging: 2~3 hours Rapid charge: 1~2 hours
Cycle Life	≥4000 Cycle life Test condition: Charge: 0.2C to 28.8V/Cell , then stored for 10 minutes. Discharge: 0.5C to over discharge protection, then stored for 10 minutes. When the discharge capacity drops to 80% of the initia capacity, the number of cycles completed is defined as the cycle life of the energy storage.
Operating temperature	Charging temperature: 0°C~55°C Discharging temperature: -20°C~55°C
Storage temperature	0°C~+45°C (＜1 month) 0°C~+35°C (＜6 month)
Storage humidity	<75% RH
Standard testing condition	Temperature: 25±2°C Humidity: ≤75%RH
Product dimension	522*238*218mm
Weight	≈ 25kg

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Battery Module

LYB-3.84kWh Battery Module be mainly used in electric vehicles, electric mobility; Solar/wind energy storage system; UPS, backup power; Telecommunication; Medical equipment; Lighting.

Features

Longer Cycle Life

life than lead acid battery, helping to minimize replacement cost and reduce total cost of owner.

Lighter Weight

About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

Higher Power

Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

Superior Safety

Automatic protection with internal battery management system.

Increased Flexibility

Modular design enables deployment of up to two batteries in series and up to four batteries in parallel.

Wider Temperature Range

-20°C~60°C

LESSO

Battery Module

Items	LYB-3K8BL7-TC
Nominal voltage	25.6V
Nominal capacity	150Ah
Nominal energy	3.84kWh
Usable energy	3.84kWh
Recommended charge current	75A
Max.continuous charge current	150A
Max.continuous discharge current	150A
Max.continuous discharge power	3.8KW
Standard charge voltage	27.6V
End of discharge voltage	22.4V
Cycle life	≥3000 cycles @100%DOD 1C; ≥5000 cycles @80%DOD 1C
DOD	100%DOD
Discharge temperature	-20~60°C
Charging temperature	0~45°C
Storage temperature	-5~ 35°C
Relative humidity	60±25%R.H.
Altitude	≤3000m
IP grade	IP65
Package size (H×W×D)	283×575×290mm
Gross weight	31kg
Machine size (H×W×D)	223×522×244mm
Net weight	29kg
Thermal method	Natural Cooling
Defencive function	Overvoltage Protection/Undervoltage Protection/Overcurrent Protection/ Overtemperature Protection / Low-Temperature Protection/Short-Circuit Protection
Certification	UN38.3 / MSDS

Remarks: Specifications are subject to change without notice

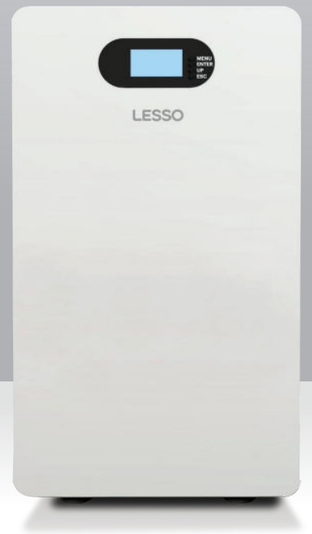
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Residential Floor-mounted Energy Storage

LHD-11.7kWh battery packs are floor-mounted residential lithium batteries, designed entirely for residential ESS applications. With our battery technology, you can easily combine it with a mainstream inverter in diferent scenarios to save your electrical bill & back-up your power during grid outage or unavailable.

Features

Safety
High safety $LiFePO_4$ battery; Fire-safe, non-toxic;Lithium ferrous phosphate (LFP) cells.

Long-lasting
10 years life design.
Long cycle life and superior performance

Portable installation
Floor-mounted installation method, Convenient and fast

Wide compatibility
Compatible with multiple brands of mainstream inverter use

Environment protection
Non-toxic and pollution-free

LESSO

Residential Floor-mounted Energy Storage

Items	LHD-51G230L-TC
Nominal voltage	51.2V
Nominal capacity	230Ah
Nominal energy	11.7kWh
Usable energy	11.7kWh
Recommended charge current	100A
Max.continuous charge current	200A
Max.continuous discharge current	200A
Max.continuous discharge power	10KW
Standard charge voltage	55.2V
End of discharge voltage	44.8V
Cycle life	≥4000 cycles @100%DOD 1C; ≥6000 cycles @80%DOD 1C
DOD	100%DOD
Discharge temperature	-20~60°C
Charging temperature	0~45°C
Storage temperature	-5~35°C
Relative humidity	＜95%
Altitude	≤3000m
IP grade	IP21
Package size (H×W×D)	1100×580×370mm
Gross weight	98kg
Machine size (H×W×D)	750×442×230mm
Net weight	94kg
Display	LCD
Communication	RS485/CAN
Thermal method	Natural Cooling
Defencive function	Overvoltage Protection/Undervoltage Protection/Overcurrent Protection/ Overtemperature Protection / Low-Temperature Protection/Short-Circuit Protection
Certification	UN38.3 / MSDS

Remarks: Specifications are subject to change without notice

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Residential Floor-mounted Energy Storage

LHD series battery packs are Floor mounted residential lithium batteries, designed entirely for residential ESS applications. With our battery technology, you can easily combine it with a mainstream inverter in diferent scenarios to save your electrical bill & back-up your power during grid outage or unavailable.

Features

Safety
BYD high-safety lithium iron phosphate battery, fire-resistant and non-toxic

Long-lasting
5 years life design.
Long cycle life and superior performance

Flexible Installation
Floor-mounted installation, wheeled mobility

Wide compatibility
Compatible with multiple mainstream inverter brands

Lightweight & Eco-friendly
High energy density, compact design, lightweight and eco-friendly

High structural strength
Adopts BYD automotive-grade reinforced structure design for high reliability

Parameters	LHD-51F250L1A-BY
Battery Input(DC)	
Nominal voltage	51.2V
Nominal capacity	250Ah
Nominal energy	12.8kWh
Usable energy	12.8kWh
Recommended charge current	100A(MAX150A)
Max. continuous charge current	100A
Max. continuous discharge current	150A
Max. discharge power	8.5KW
Standard charge voltage	58.4V
End of discharge voltage	46V
DOD	90% DOD
Environment Parameters	
Discharge temperature	-20~55°C
Charging temperature	0~50°C
Storage temperature	10~35°C
Relative humidity	65±20% HR
Altitude	≤2000m
IP Grade	IP20
Mechanical Data	
Machine size(L*W*H)	472×360×831mm
Net weight	132.5kg
Package size(L*W*H)	925×575×555mm
Gross weight	152.5kg
Others	
Display	LCD Display
Communication	RS485 / CAN
Thermal method	Natural Cooling
Protection functions	Overvoltage Protection / Over-discharge Protection / Overcurrent Protection / Overtemperature Protection / Low-Temperature Protection / Short-Circuit Protection
Certification	UN38.3 / MSDS

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