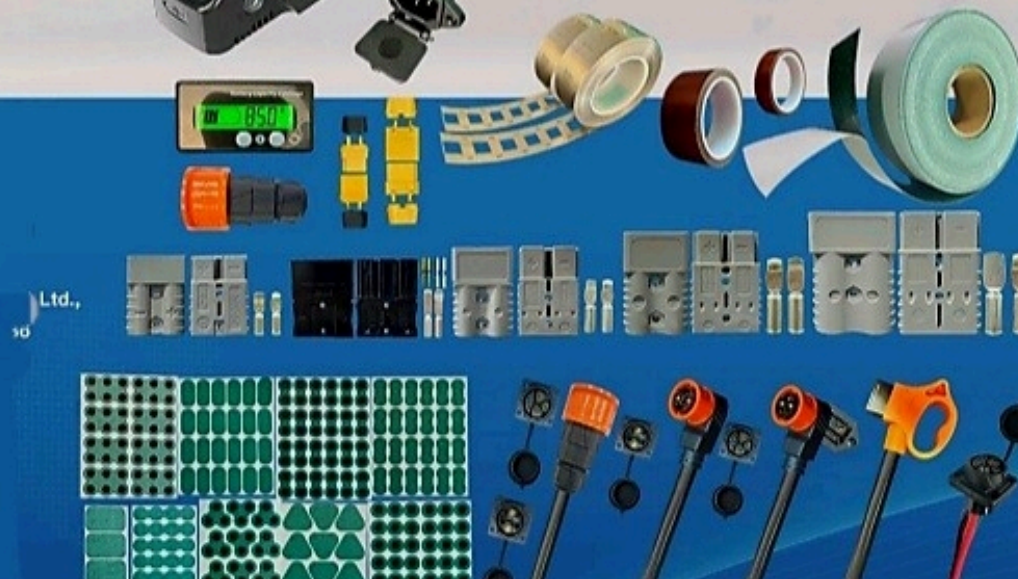




CONTENTS

INSULATION PAPER RING & CAP	---Page 1
INSULATION PAPER ROLL	---Page 2
NICKEL STRIP	---Page 3
IEC CONNECTOR	---Page 4
SB CONNECTOR SERIES	---Page 5
XT CONNECTOR	---Page 6
WATERPROOF CONNECTOR SERIES	---Page 7
BATTERY INDICATOR	---Page 8
HL CASE SKD	---Page 9

Barley Paper is a high-performance electrical insulation material widely used in lithium battery PACK manufacturing. It primarily serves as an insulation barrier between the positive and negative electrodes to prevent short circuits, thereby enhancing battery safety and stability. Made from high-purity fiber materials, Barley Paper offers excellent electrical insulation, high-temperature resistance, and strong mechanical properties. It can be used for individual battery cells as well as multi-layer protection in battery modules. Additionally, Barley Paper can be laminated with PET film or polyimide (PI) film to enhance its thermal and mechanical properties for various applications.

Product Features

- ✓ **Superior Electrical Insulation:** Effectively prevents battery short circuits, ensuring safety.
- ✓ **Excellent High-Temperature Resistance:** Withstands internal temperature variations without deformation or damage.
- ✓ **Strong Mechanical Strength:** Highly wear-resistant, ensuring long-term durability. **Eco-Friendly Material:** Non-toxic and compliant with RoHS and REACH environmental standards.
- ✓ **Flexible and Customizable:** Can be cut and die-cut for different battery configurations.

Application Fields

- ✓ **Lithium Battery Electrode Insulation:** Prevents electrode short circuits and enhances safety.
- ✓ **Battery PACK Enclosure:** Provides insulation between battery layers and cells to reduce short-circuit risks.
- ✓ **Power Batteries & Energy Storage Systems:** Used in EVs, solar energy storage, and industrial power solutions.
- ✓ **Electronics Insulation Protection:** Applied in smartphones, laptops, and other consumer electronics.



S.N.	DESCRIBE	MODEL	INNER DIAMETER	OUTER DIAMETER	THICKNESS	STATE
1	Insulation Paper Ring	18650 Positive+	10mm	18mm	0.2mm to 0.5mm	Hollow, single-sided self-adhesive
2	Insulation Paper Cap	18650 Negative-	/	18mm	0.2mm to 0.5mm	Solid, single-sided self-adhesive
3	Insulation Paper Ring	21700 Positive+	10mm	21mm	0.2mm to 0.5mm	Hollow, single-sided self-adhesive
4	Insulation Paper Cap	21700 Negative-	/	21mm	0.2mm to 0.5mm	Solid, single-sided self-adhesive
5	Insulation Paper Ring	26650 Positive+	15mm	26mm	0.2mm to 0.5mm	Hollow, single-sided self-adhesive
6	Insulation Paper Cap	26650 Negative-	/	26mm	0.2mm to 0.5mm	Solid, single-sided self-adhesive
7	Insulation Paper Ring	32700 Positive+	15mm	32mm	0.2mm to 0.5mm	Hollow, single-sided self-adhesive
8	Insulation Paper Cap	32700 Negative-	/	32mm	0.2mm to 0.5mm	Solid, single-sided self-adhesive

Insulation Paper Roll plays a crucial role in lithium batteries. It is not only used to wrap the positive, negative, and side areas to prevent short circuits but also provides additional mechanical protection, preventing the battery from being damaged by external pressure, friction, or vibrations during assembly, transportation, and use. At the same time, insulation paper enhances the battery's thermal management performance with high-temperature resistance, helping to dissipate heat, reduce local overheating risks, and improve battery stability. Additionally, it prevents electrolyte leakage that could cause corrosion, reduces stray currents, and lowers the self-discharge rate, thereby improving long-term storage performance. Structurally, insulation paper helps to secure battery cells in place, enhancing overall stability and, to some extent, buffering cell swelling, thereby extending battery life. Some high-performance insulation materials also have flame-retardant properties, reducing safety risks from thermal runaway. Therefore, selecting our insulation materials not only ensures the electrical safety of the battery but also enhances its durability and reliability, providing strong support for the efficient operation of lithium batteries.



S.N.	DESCRIBE	MODEL	WIDTH	LENGTH PER ROLL	THICKNESS	STATE
1	Insulation Paper Roll	65100	65MM	100 MTR	0.2mm to 0.5mm	Single-Sided Self-Adhesive
2	Insulation Paper Roll	70100	70MM	100 MTR	0.2mm to 0.5mm	Single-Sided Self-Adhesive
3	Insulation Paper Roll	90100	90MM	100 MTR	0.2mm to 0.5mm	Single-Sided Self-Adhesive
4	Insulation Paper Roll	100100	100MM	100 MTR	0.2mm to 0.5mm	Single-Sided Self-Adhesive
5	Insulation Paper Roll	110100	110MM	100 MTR	0.2mm to 0.5mm	Single-Sided Self-Adhesive
6	Insulation Paper Roll	130100	130MM	100 MTR	0.2mm to 0.5mm	Single-Sided Self-Adhesive
7	Insulation Paper Ring	140100	140MM	100 MTR	0.2mm to 0.5mm	Single-Sided Self-Adhesive
8	Insulation Paper Cap	1100	1000MM	100 MTR	0.2mm to 0.5mm	Single-Sided Self-Adhesive

In the manufacturing of lithium batteries, power batteries, and energy storage batteries, **Nickel Strips** serve as a critical conductive connection material, widely used for the series and parallel welding of battery cells. Based on different application requirements, nickel strips are primarily categorized into Nickel-Plated and Pure Nickel. Below is a professional analysis of their advantages from the perspectives of conductivity, corrosion resistance, cost efficiency, and welding performance.

Nickel-Plated Key Features:

Cost Efficiency: Compared to pure nickel, nickel-plated materials maintain essential conductivity while significantly reducing manufacturing costs, making them ideal for large-scale production.

Good Mechanical Strength: Nickel-plated materials have higher strength and rigidity, making them suitable for automated production lines and improving battery assembly stability.

Moderate Conductivity: The nickel-plated layer provides adequate conductivity for most medium-power battery applications.

Enhanced Corrosion Resistance: The plated nickel layer effectively prevents oxidation, improving long-term stability.

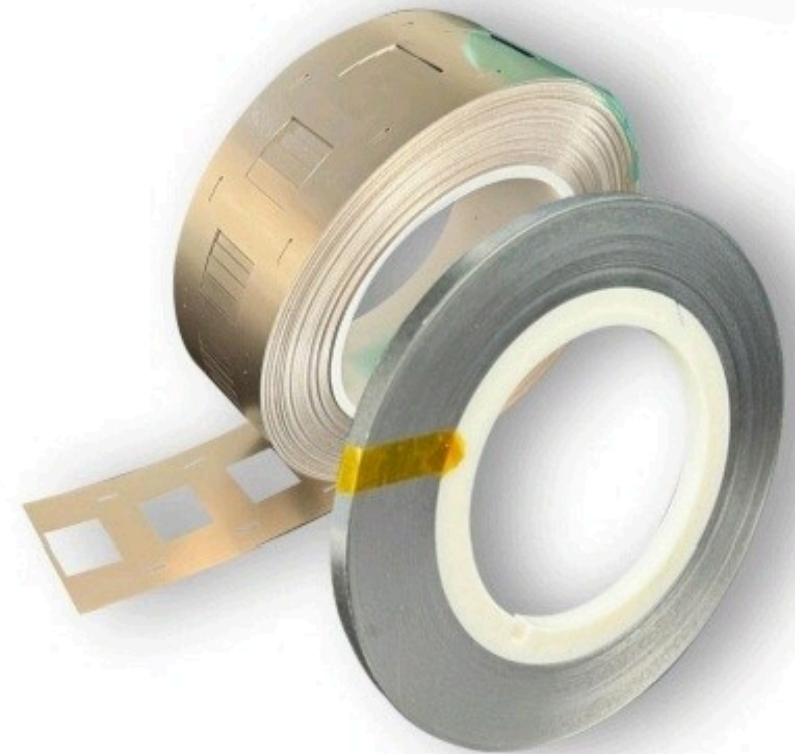
Stable Welding Performance: Nickel-plated materials are well-suited for spot welding processes, ensuring compatibility with automated welding systems and increasing production efficiency.

Pure Nickel Key Features:

Superior Conductivity: Compared to nickel-plated materials, pure nickel has lower resistance, making it ideal for high-rate discharge battery packs and reducing energy loss.

Exceptional Corrosion Resistance: High-purity nickel ($\geq 99.5\%$) resists oxidation in humid or high-temperature environments, making it suitable for long-life battery systems.

Excellent Spot Welding Performance: The softer nature of pure nickel enhances welding performance, making it ideal for high-precision automated welding processes.



S.N.	DESCRIBE	MODEL	WIDTH	WEIGHT PER ROLL	THICKNESS	PACKAGE
1	Pure/Plated Nickel strip-2P	18650 without holder	25.5MM	2KGS	0.12mm to 0.2mm	Vacuum compression bag + drying bag
2	Pure/Plated Nickel strip-2P	18650 with holder	27MM	2KGS	0.12mm to 0.2mm	Vacuum compression bag + drying bag
3	Pure/Plated Nickel strip-2P	21700 without holder	30MM	2KGS	0.12mm to 0.2mm	Vacuum compression bag + drying bag
4	Pure/Plated Nickel strip-2P	21700 with holder	31MM	2KGS	0.12mm to 0.2mm	Vacuum compression bag + drying bag
5	Pure/Plated Nickel strip-2P	26650 with holder	37.2MM	2KGS	0.12mm to 0.2mm	Vacuum compression bag + drying bag
6	Pure/Plated Nickel strip-2P	32700 without holder	47MM	2KGS	0.12mm to 0.2mm	Vacuum compression bag + drying bag
7	Pure/Plated Nickel strip-2P	32700 with holder	49.5MM	2KGS	0.12mm to 0.2mm	Vacuum compression bag + drying bag
8	Pure/Plated Nickel strip	Normal	6MM/8MM/10MM	2KGS	0.12mm to 0.2mm	Vacuum compression bag + drying bag

WATERPROOF CONNECTORS are designed to provide both high-current power transmission and reliable signal communication while ensuring excellent waterproof performance. These connectors feature an automatic locking mechanism and can achieve an IP67 rating, making them ideal for demanding environments.

Key Features

- Supports both power and signal transmission, ensuring stable performance for complex electronic systems.
- IP67 waterproof rating, providing protection against dust and water immersion, suitable for outdoor and harsh environments.
- Automatic locking mechanism, ensuring secure and stable connections without the risk of accidental disconnection.
- Extended lifespan, lasting 1.5 times longer than standard connectors, reducing maintenance and replacement costs.

Applications

- Waterproof connectors are widely used in high-power and outdoor applications, including:
- Large-scale building LED systems – Ensuring stable power and data transmission for architectural lighting.
 - Stage LED lights – Providing secure and waterproof connections for high-performance event lighting.
 - High-power electric vehicles – Used in three-wheelers, tour vehicles, and compact four-wheel EVs for reliable power delivery.
 - ESS power stations – Ensuring stable and safe connections for energy storage systems.
- With superior durability, waterproofing, and multifunctional connectivity, waterproof connectors are the perfect solution for applications requiring both power and signal transmission in challenging environments.



S.N.	DESCRIBE	PIN TYPE	HOUSING MATERIAL	TERMINAL MATERIAL	FUNCTION	CURRENT	OPTIONAL CONFIGURATION
1	IP67 Connectors 180 °	2+4	Nylon	Gold-plated Copper	with Auto lock	3 to 50Amp	with wire/connector/other
1	IP67 Connectors 180 °	2+1+5	Nylon	Gold-plated Copper	with Auto lock	3 to 50Amp	with wire/connector/other
2	IP67 Connectors 90 °	2+4	Nylon	Gold-plated Copper	with Auto lock	3 to 50Amp	with wire/connector/other
3	IP67 Connectors 90 °	2+1+5	Nylon	Gold-plated Copper	with Auto lock	3 to 50Amp	with wire/connector/other
4	IP67 Connectors 90 °	2+6	Nylon	Gold-plated Copper	Without Auto lock	3 to 60Amp	with wire/connector/other
5	IP67 Connectors 90 °	4+4	Nylon	Gold-plated Copper	with Auto lock	3 to 120Amp	with wire/connector/other

BATTERY INDICATOR uses high-precision voltage acquisition and unique SOC estimation to calculate the battery capacity. It can not only visually check the current voltage and capacity, but also supports 4 display functions to meet different products, voltage & capacity alternating display / 10-second sleep mode / separate control to switch voltage or capacity display / lock only SOC capacity display. Four different settings bring different displays. The side lock design can be locked in the lithium battery or any product by pushing it in. The surface is waterproof and will not get water even in the process of continuous water sprinkling.

One battery indicator supports the application of three battery types (LFP battery, NMC battery, lead-acid battery), which has more application capabilities than the market, with a wide range of design from 7Volt to 120Vt, and the service life is increased by 1.5 times. It can be checked immediately through simple connection and setting.

Applications

- Ev scooter/Three-wheeler/Transport forklift/Lithium battery
- Agricultural Electronics/Unmanned robots, drones/Electronic scales
- ESS system equipment/UPS battery/Any lithium battery related products



1

S.N.	DESCRIBE	PRODUCT SIZE	INSTALL SIZE	APPLICABLE BATTERY	APPLICABLE VOLTAGE	PROTECTION GRADE	ACCESSORIES
1	Battery indicator pro	61.5*33.5mm	57*28.5mm	NMC/LFP/Lead-acid	7Volt to 120Volt	IP54(Waterproof surface)	Host*1 & Cable 300mm*1

IEC 3-PIN CONNECTOR with Silicone Cable is a cost-effective and widely adopted solution for lithium battery pack manufacturers.

This connector is designed to ensure safe and efficient power transmission while maintaining durability and ease of use.

Key Features:

Soft Cover & Spring Cover Options: Offers flexibility in design, providing protection against dust and accidental disconnection.

Integrated Silicone Cable (150mm): The connector and silicone cable are molded as a single unit, ensuring a secure and robust connection.

10A Charging & Discharging: Capable of handling up to 10A of current, making it suitable for various lithium battery applications.

High-Quality Silicone Cable: Provides excellent heat resistance, flexibility, and durability, ensuring long-term reliability.

Cost-Effective: Designed as a low-cost solution, making it an ideal choice for most lithium battery pack manufacturers.

This IEC 3-Pin connector is a practical and efficient choice for manufacturers looking for a reliable, durable, and budget-friendly power connection solution.

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S.N.	DESCRIBE	WIRE LENGTH	TYPE	HOUSING MATERIAL	PIN MATERIAL	CURRENT	TECHNOLOGY
1	IEC 3PIN male connector	150mm/200mm	Spring cap	nylon	copper	10Amp	wire end is exposed with tin
2	IEC 3PIN male connector	150mm/200mmr	Sofr cap	nylon	copper	10Amp	wire end is exposed with tin

SB CONNECTOR is an industrial-grade power connector widely used in battery packs, electric forklifts, UPS (Uninterruptible Power Supply) systems, solar energy storage, electric vehicles, and various industrial equipment requiring high current transmission. Designed by Anderson Power Products (APP), SB connectors are known for their high current capacity, durability, and safety, making them a preferred choice for demanding power applications.

Key Features of SB Connectors

High Current Capacity – SB connectors are available in a range of 50A to 350A or even higher, making them ideal for high-power applications.

Genderless Design – Unlike traditional connectors that require male and female counterparts, SB connectors use a genderless design, allowing any two identical connectors to mate, simplifying installation and reducing inventory complexity.

Rugged and Durable Construction – Manufactured using high-impact, flame-resistant polycarbonate (PC) or PBT materials, SB connectors can withstand extreme conditions, ensuring long-lasting performance in industrial environments.

Anti-Reverse Polarity Protection – SB connectors use color-coded housings to differentiate voltage levels, preventing incorrect connections and potential damage to electrical systems.

Low Contact Resistance – Featuring silver- or tin-plated copper terminals, SB connectors provide excellent conductivity, minimizing energy loss and enhancing overall efficiency.

Self-Cleaning Contacts – The wiping action of the contact surfaces during insertion and removal helps eliminate dirt, oxidation, and contaminants, ensuring reliable electrical connections over time.

Versatile and Modular Design – SB connectors are designed to accommodate a wide range of wire sizes and configurations, making them suitable for various industrial and commercial power applications.



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6

s.n.	Describe	Housing Material	Terminal Material	Normal Size For Terminals	Current	Optional Configuration
1	SB40 with 2PIN	PC	Silver-plated Copper	No.10	40Amp	With Silicone wire/ICE 3PIN/XT60 90
2	SB50 with 2PIN	PC	Silver-plated Copper	No.08	50Amp	With Silicone wire/ICE 3PIN/XT60 90
3	SB75 with 2PIN+4PIN	PC	Silver-plated Copper	No.06	75Amp	With Silicone wire/ICE 3PIN/XT60 90
4	SB120 with 2PIN	PC	Silver-plated Copper	No.04	120Amp	With Silicone wire
5	SB175 with 2PIN	PC	Silver-plated Copper	No.1/0	175Amp	With Silicone wire
6	SB350 with 2PIN	PC	Silver-plated Copper	No.2/0	350Amp	With Silicone wire

XT60-MF AND XT90-MF CONNECTORS are compact, high-current power connectors designed for high-performance battery and power systems. They are widely used in drones, RC models, electric vehicles, balance scooters, skateboards, remote-controlled toys, solar street lights, power tools, and electric agricultural equipment.

Applications

- Drones & RC Models: Compact design fits tight spaces, providing stable current for reliable operation.
- Electric Vehicles & Balance Scooters: Connects batteries to controllers, ensuring efficient high-current transmission for powerful performance.
- Solar Power Systems: Used for connecting energy storage batteries to inverters, ensuring long-term stable power supply.
- Power Tools & Equipment: Supports high-power electric tools, enabling efficient energy transfer for enhanced performance.

Advantages

- Compact design saves installation space, making it ideal for devices with limited room.
- High current capacity – XT60 rated at 30A, XT90 rated at 40A, suitable for high-power applications.
- High-temperature nylon housing, durable and flame-resistant for long-term reliability.
- Gold-plated copper terminals ensure low resistance, minimizing energy loss and improving transmission efficiency.
- Secure connection with anti-loosening design, enhancing safety and preventing poor contact.
- With small size, high current capacity, and high reliability, XT60-MF and XT90-MF connectors are ideal solutions for various high-power devices, ensuring a safe and stable power connection.

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S.N.	DESCRIBE	HOUSING MATERIAL	TERMINAL MATERIAL	ACCESSORIES	CURRENT	OPTIONAL CONFIGURATION
1	XT60-MF	Nylon	Gold-plated Copper	With Protect cap	30Amp	With Silicone wire/ICE 3PIN/other
2	XT90-MF	Nylon	Gold-plated Copper	With Protect cap	50Amp	With Silicone wire/ICE 3PIN/other

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Applications

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- Agricultural Electronics/Unmanned robots, drones/Electronic scales
- ESS system equipment/UPS battery/Any lithium battery related products

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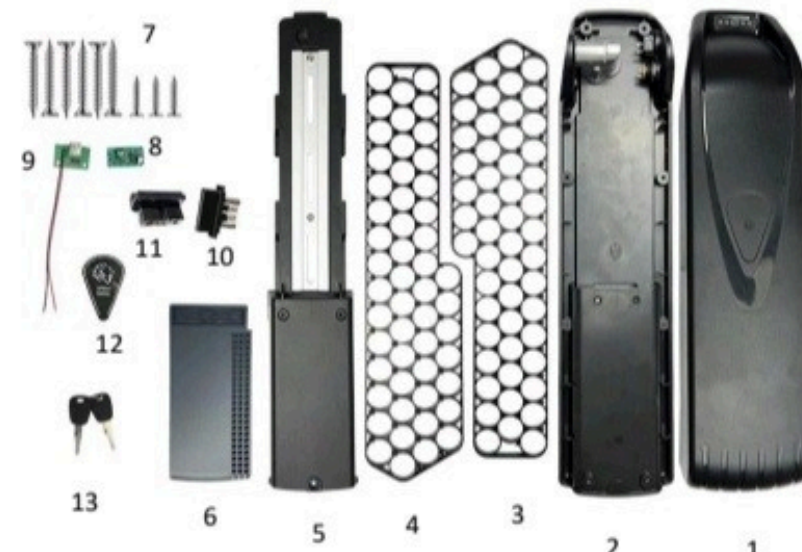


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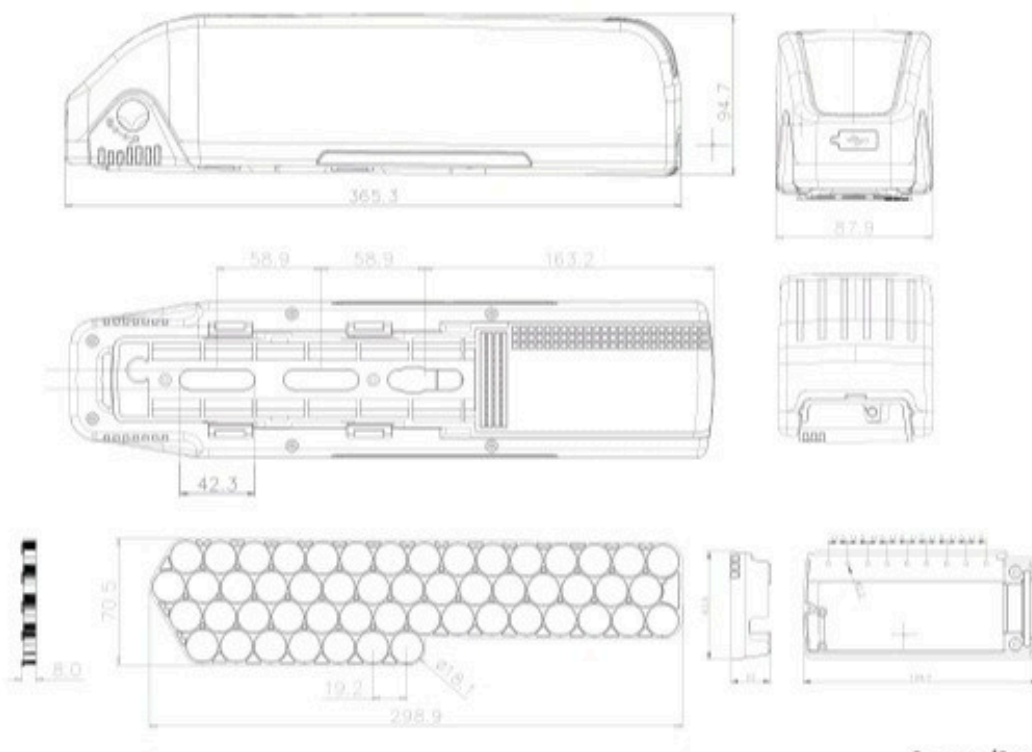
S.N.	DESCRIBE	PRODUCT SIZE	INSTALL SIZE	APPLICABLE BATTERY	APPLICABLE VOLTAGE	PROTECTION GRADE	ACCESSORIES
1	Battery indicator pro	61.5*33.5mm	57*28.5mm	NMC/LFP/Lead-acid	7Volt to 120Volt	IP54(Waterproof surface)	Host*1 & Cable 300mm*1

DESCRIBE	INSTALL CELL QTY	SUPPORT VOLT	S.N	ACCESSORIES
HLCASE -SKD	MAX 52pcs 18650	36Volt / 48Volt	1	Top case
			2	Bottom case with Lock /Master switch/DC2.1 connector
			3	18650 holder
			4	18650 holder
			5	Sliding case
			6	Controller Aluminum case
			7	screw
			8	36V/48V Convert 5V2A
			9	Indicator with USB5V2A
			10	2+4 male Connector
			11	2+4 female Connector
			12	Sticker
			13	key

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HL CASE is a lithium battery SKD case for Ev bike. Using the HL case designed by our company, you can install up to 52pcs cells, which can meet the needs of 36Volt and 48volt Ev bikes, respectively assembling 10S5P (50PCS For18650) and 13S4P (52PCS For18650), with built-in step-down PCB board. Using our HL case can provide an additional 5Volt 2Amp output for lithium batteries. Support mobile phone charging, LED flashlight, etc. HL case includes all accessories, excluding nickel strips, controllers and chargers. If you need to use them, please contact us to purchase them additionally.





DALY - Active Balancer



NEEY - Active Balancer



Lithium Battery Pack



DALY-BMS



JRD-BMS



JK-BMS



DALY100BALANCE
SMART BMS



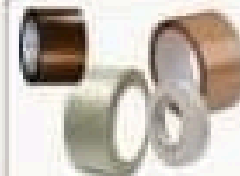
TDT-BMS



JLGM-BMS



Cell



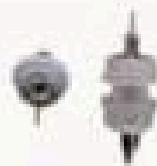
Tapes



PVC Heat Shrink Sleeve



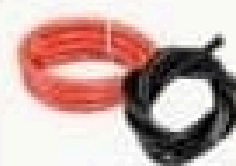
EVA Foam Sheet (1*2 Mtr)



IR BIT



Insulation Paper



Silicon Wire



HALCON GMS HL12002
CELL



PLASTIC CASE GDM7



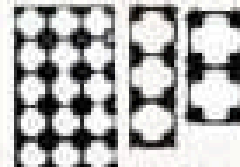
Battery Metal Box



PLASTIC GLAND PG



Battery Box Handle



Cell Holder



EVE Cell Holder 100AH



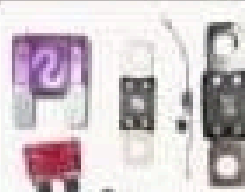
Epoxy Resin Board



Nickel Strip/Pure



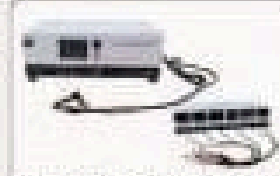
HET



Fuse



Connectors



Universal Acid Battery Fast Charge
Discharge Tester - 50/20A



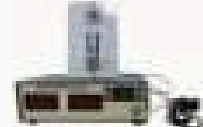
Lead Acid Battery Charge &
Discharge Instrument (200Ah/12V)



Spot Welding Machine



Spot Welding Machine



IR Voltage Testing
Machine(Big)



IR Voltage Testing
Machine(Small)



Testing
Machine