

Cylindrical Battery Cell Bracket Modular 18650 26650 Holder

2S 3S Pack Material

Item Number: FZ53



Introduction

Engineered for cylindrical cell fabrication, this flame-retardant ABS and PC modular battery spacer bracket provides secure 18650 and 26650 cell positioning, modular 2S and 3S interlocking assembly, and superior mechanical stability for precision spot welding and pack manufacturing.

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Application	Description	Key Benefit
Electric Vehicle Traction Packs	Structural modular framing for multi-parallel, multi-series cylindrical cell arrays in commercial and passenger EV platforms.	Withstands severe vehicle vibration while maintaining exact cell center-to-center pitch for heavy busbars.
Stationary Energy Storage Systems	High-capacity battery racks and containerized ESS modules utilizing 18650 or 26650 lithium iron phosphate (LFP) cells.	UL94 V-0 fire resistance significantly reduces catastrophic thermal cascade risks in dense stationary installations.
Light Electric Mobility (LEVs)	Custom-shaped battery packs for electric bicycles, electric scooters, and cargo utility vehicles requiring compact integration.	Interlocking modular tabs allow flexible pack geometries that fit uniquely contoured frame cavities and enclosures.
Industrial Robotics & AGVs	High-drain, high-vibration battery systems operating in continuous logistics, warehousing, and automated manufacturing equipment.	Robust structural rigidity prevents mechanical fatigue on spot-welded interconnect tabs under constant acceleration cycles.
Cordless Power Tools & Appliances	Heavy-duty, high-discharge battery modules subjected to frequent operational drops, rough handling, and elevated ambient heat.	Superior mechanical damping and dimensional stability maintain cell integrity under extreme impact and thermal cycling.
Battery R&D & Prototyping Labs	Fast configuration of experimental multi-cell configurations for novel cell chemistry validation and cycle-life testing.	Eliminates costly custom injection tooling by allowing rapid manual snapping of 2S and 3S blocks into bespoke matrices.

Specification Parameter	FZ53-18650 Series	FZ53-26650 Series
Base Product Number	FZ53	FZ53
Compatible Cell Type	18650 Cylindrical Cells	26650 Cylindrical Cells
Internal Aperture Diameter	~18.2 mm	~26.2 mm
Structural Configurations	2-Series (2S) / 3-Series (3S)	2-Series (2S) / 3-Series (3S)
Material Composition	ABS + Polycarbonate (ABS+PC Alloy)	ABS + Polycarbonate (ABS+PC Alloy)
Flammability Rating	UL94 V-0 Grade	UL94 V-0 Grade
Interlocking Mechanism	Peripheral Precision Edge Card Slots	Peripheral Precision Edge Card Slots
Surface Finish	Smooth Matte Industrial Finish	Smooth Matte Industrial Finish
Color	Black	Black
Operating Temperature Range	-40°C to +105°C	-40°C to +105°C
Cell Retention Method	Interference Slip-Fit Matrix	Interference Slip-Fit Matrix
Primary Manufacturing Utility	Spot Welding Fixture & Pack Spacer	Spot Welding Fixture & Pack Spacer
Dielectric Strength	≥ 20 kV/mm	≥ 20 kV/mm

Specification Parameter	FZ53-18650 Series	FZ53-26650 Series
Chemical Resistance	Resilient to Battery Electrolyte Vapors, Oils, & Common Solvents	Resilient to Battery Electrolyte Vapors, Oils, & Common Solvents