



FSP Battery Charger Solutions

-Customized Design and Service-

FSP provides various battery charger solutions that are applicable to the 7S-16S battery module; the output power ranges from 84W-20KW, providing wide applications for different fields, including external chargers or on-board chargers. The optimized circuit design, programmable charging curve, and highly efficient heat dissipation processing can protect the battery effectively and prolong battery life, providing stable and lasting operation time while reducing costs. We provide customized service and design products that are most suitable for customer applications based on different battery specifications, usage environment conditions, and safety requirement assessments.

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Light Electric Vehicle Applications:

Battery chargers that are suitable for handheld and portable devices. The products are lightweight and compact and are used in consideration of the various safety regulations for physical contact situations; for example the charger for electric bicycles.

They have 90% high energy conversion efficiencies, miniaturized and portable design features, visualized charging status indications, and can charge under $-10^{\circ}\text{C}\sim+40^{\circ}\text{C}$ environments.

The related products already passed safety certifications in many countries for your selection.

- Four charging modes to maintain batteries performance.
- Fan-less design with natural heat dissipation.
- Built-in protections: OCP, OVP, OTP, SCP.
- Safety certifications: IEC / UL variants.
- Wide operation range.



Electric Vehicle Applications:

Battery chargers that are suitable for purely electric/hybrid power/range extender and other new energy transportations.

The products have high conversion efficiencies and meets water-proof and dust-proof levels, able to operate normally under rigorous environments, ensuring smooth and stable operations of transportation.

- The CC-CV charging mode keeps the battery 100% performance.
- Cooling design for rigorous environments ($-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$).
- Water-proof and dust-proof up to IP67.
- Temperature Monitoring.
- Connection reverse protection.
- High input voltage protection.



Industry Applications:

Suitable for mobile warehouse machineries or handling equipment that need frequent high-level vibrations, impacts, and temperature changes (including refrigeration).

FSP can customize highly reliable and high charging quality on-board chargers according to customer needs.

- Active heat dissipation system can effectively extend the charger's life.
- High reliability and charge quality.
- Long usage time in different operating modes.
- Multi products are available for different applications.

