

EnergyKlip™ EK350 Connectors

INDUSTRIAL BATTERY MODULE CONNECTOR FOR ENERGY MARKETS

Amphenol’s new EnergyKlip™ product series utilizes existing and trusted Amphenol high-current contact technology designed for energy markets. EnergyKlip™ EK350 connectors are rated for up to 350A per contact and features a built-in IP67 seal to ensure protection from harsh environments. EnergyKlip™ EK350 is an ideal product for battery module interconnects within an energy storage system (ESS). EK350 also features a robust latching system to ensure a reliable connection while mated. This power connector comes in both cable and flex busbar variations to accommodate a wide range of system designs.

- Distributes up to 350A per contact
- IP67 rated seal
- Existing and trusted contact technology
- Flexible cable or flex busbar options
- Future-proof design

FEATURES

- Contacts with high-conductivity Copper Alloy
- IP67 rated option available
- Uses existing and proven BarKlip® contact technology
- Cable and flex busbar options available
- Convenient battery interconnect solution



TARGET MARKETS



BENEFITS

- Carries up to 350A per contact
- Provides full protection from dust and temporary immersion
- Powerful contact design capable of distributing high-currents
- Offers flexibility in system designs
- Touch-safe connections allow for easy access to battery modules for removal or maintenance

TECHNICAL INFORMATION

MATERIAL

- Power Contacts: High Conductivity Copper Alloy
- Housing & TPA: Thermoplastic, UL 94V-0
- Sealing: Silicone
- Latch: Stainless Steel

MECHANICAL PERFORMANCE

- Mating/Un-mating Force: Mating force shall not exceed 90N and un-mating shall not be less than 110N.

- Durability: 150 mating cycles

ELECTRICAL PERFORMANCE

- Power Contacts: 350A per contact
- Operating Voltage Range: 1500VDC
- Contact Resistance: End-of-life contact resistance shall not exceed 0.3mΩ

PACKAGING

- Carton

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +105°C

APPROVALS AND CERTIFICATIONS

- UL94V-0
- UL4128
- SAE/USCAR-2
- SAE/USCAR-37
- EIA-364
- GB/T30038

SPECIFICATIONS

- Product Specification: GS-12-1874
- Application Specification: Coming Soon

TARGET MARKETS/APPLICATIONS



e-Mobility
Industrial Charger



Energy Storage System (ESS)
BBU (Battery Backup Unit)
Battery Connections

PART NUMBERS

Description	Part Numbers
EnergyKlip™ EK350 Plug	10171990
EnergyKlip™ EK350 Receptacle	10173017