

EnergyKlip™ EK160 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™ EK160 connectors are rated for up to 160A per contact. This connector series offers an optional IP67-sealed variant to ensure performance in harsh environments. EnergyKlip™ EK160 is an ideal product for battery module interconnects within an energy storage system (ESS). EK160 also features a robust latching system to ensure a reliable connection while mated. This connector comes in both cable and flex busbar variations to accommodate a wide range of system designs.

- Distributes up to 160A per contact
- IP67 rated option
- Existing and trusted contact technology
- Flexible cable or flex busbar options
- Future-proof design



TARGET MARKETS



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

BENEFITS

- Carries up to 160A 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

MECHANICAL PERFORMANCE

- Mating/Un-mating Force: Mating force shall not exceed 75N and un-mating shall not be less than 225N
- Durability: 150 mating cycles

ELECTRICAL PERFORMANCE

- Power Contacts:160A per contact
- Operating Voltage Range:1500VDC
- Contact Resistance: End-of-life contact resistance shall not exceed 0.2mΩ

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

SPECIFICATIONS

- Product Specification:GS-12-1849
- Product Specification (IP67 Version): GS-12-1875
- Application Specification: Coming Soon

TARGET MARKETS/APPLICATIONS



e-Mobility
Industrial Charger



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