

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 power connector comes in both cable and flex flat cable variations to accommodate a wide range of system designs.

- Distributes up to 160A per contact
- IP67 rated option
- Existing and trusted contact technology
- Cable and flex flat cable 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 flat cable options
- 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, UL94V-0
- Sealing : Silicone

MECHANICAL PERFORMANCE

- Mating/Unmating Force: Mating force shall not exceed 75N and unmating 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



Power Module
Level 2 Charger
Level 3 Charger
Superfast Charging



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

PART NUMBERS

Description	Part Numbers
EnergyKlip™ EK160 Connectors, Cable Receptacle	10172000
EnergyKlip™ EK160 Connectors, Board Plug	10163945
EnergyKlip™ EK160 Connectors, Sealed Plug	10172249-00ALF
EnergyKlip™ EK160 Connectors, Sealed Receptacle	10172250-00ALF

Find part number details using the search box on www.amphenol-cs.com