

# EV Charging Power Solutions

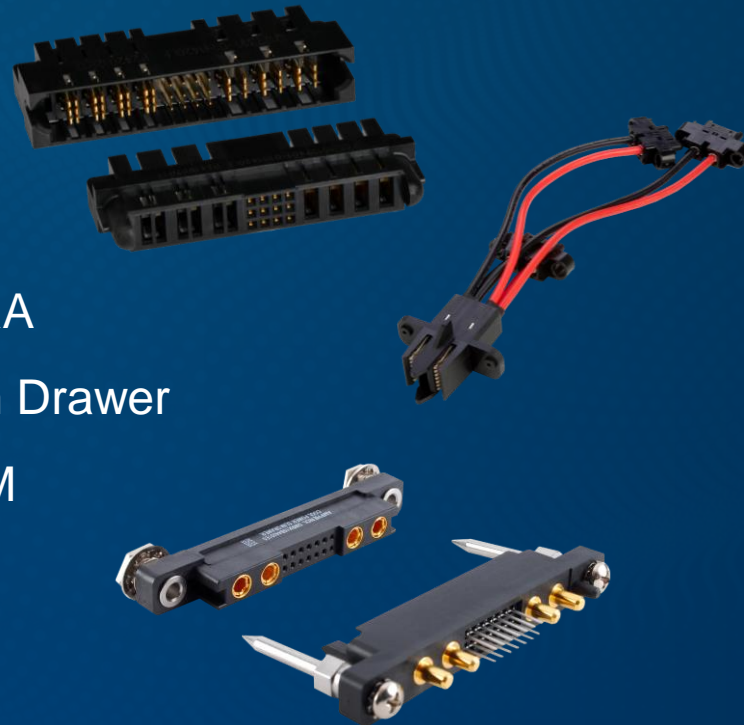
**Amphenol**  
COMMUNICATIONS SOLUTIONS



## Broad Portfolio of Products

We offer the largest range of products for power distribution, supporting power requirements from 10A – 1000A+

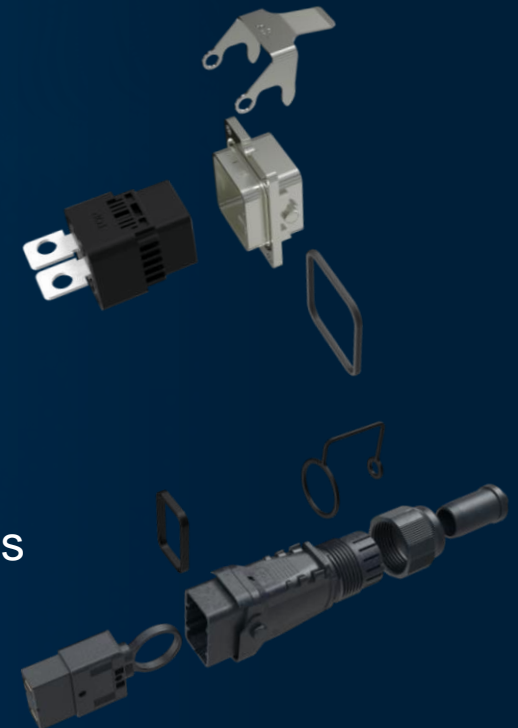
- ✓ BarKlip®
- ✓ BarKlip® I/O
- ✓ PwrBlade+®
- ✓ PwrBlade® ULTRA
- ✓ CoolPower® Slim Drawer
- ✓ CoolPower® SDM
- ✓ EazyPwr™
- ✓ SheerPwr®



## Tailored Solutions

Our dedicated team of engineers provide innovative and cost-effective solutions to meet your exact specifications

- ✓ IP69k Sealing
- ✓ Field Terminable
- ✓ Modular Tooling
- ✓ Integrated Fusing
- ✓ Blind-Mate Guides
- ✓ Multiple Configurations
- ✓ Multiple Voltages





**ACS Power Solutions has the experience and global footprint to respond quickly and efficiently to customer needs.**

- We go to great lengths to ensure quality and long-term reliability of our products
- Temperature monitoring and testing in extreme environments.
- 20+ years of power contact development and market leadership

## **Always a strategic partner.**

- Two state-of-the-art test labs
- Globally staffed R&D team
- High-volume, cost-effective manufacturing

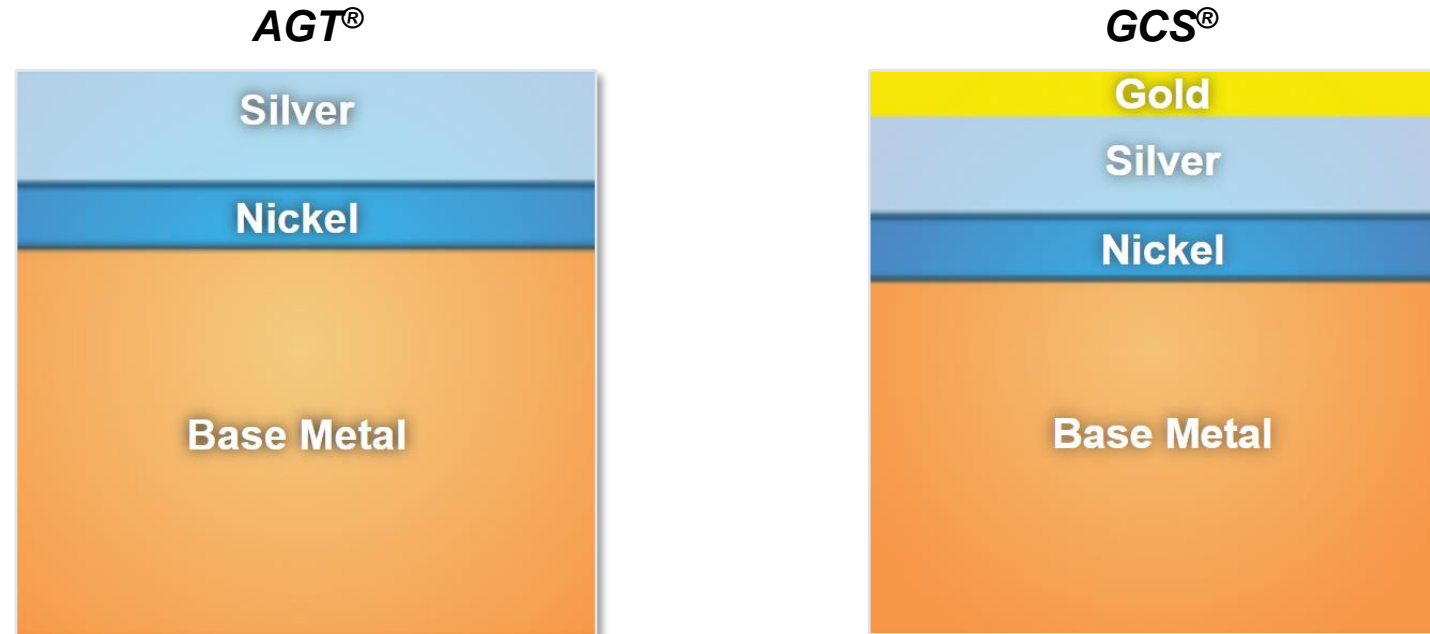


*In-house thermal  
monitoring for extreme  
environments*



Independent conducting  
beams (BarKlip®) for  
improved reliability

Our plating technology allows us to offer the most **Energy Efficient** products available



As power consumption and energy costs continue to increase, our engineers have focused on solutions that use less energy and offer energy saving to our customers; supporting the next generation of power distribution architectures



## Power Module

Varying power requirements

- PwrBlade+®
- PwrBlade+® I/O
- CoolPower® EV
- BarKlip®
- BarKlip® I/O



## AC Charger

80A 240V  
3.3kW – 22kW

- PwrBlade®
- PwrBlade+®
- PwrBlade+® I/O
- CoolPower® EV



## DC Fast Charger

Level 2/3

100A 240V  
3.3kW – 22kW

- PwrBlade+®
- PwrBlade+® I/O
- BarKlip®
- BarKlip® I/O

## BtB Solutions



**PwrBlade®**  
48A/ Contact



**PwrBlade+®**  
75A/ Contact



**PwrBlade® ULTRA**  
75A/ Contact



**PwrBlade® ULTRA HD**  
85A/ Contact

## I/O Solutions



**PwrBlade® I/O**  
48A/Contact



**PwrBlade+® I/O**  
75A/ Contact



**PwrBlade® TouchProof I/O**  
70A/ Contact

Products for **AC and DC** EV Chargers / Power Modules

Our dedicated team of engineers are able to provide innovative and cost-effective solutions to meet any specifications.

- ✓ **Power Module**
- ✓ **Charging Pile**
- ✓ **Rack-Mounted Busbar**
- ✓ **Sealed/Harsh Applications**



## **Sealed Power Module**

- Required IP67 Rating
- 80-120A
- Up to 1500V Required

## **Liquid Cooled Power Module**

- 3 Phase 22-350kW Output
- Separate Electric and Cooling Systems
- Voltage Range 240-800V

## **Power Module**

- 3 Phase 16kW Output
- AC Input DC Output
- Voltage Range 150-500V
- Hot Plug

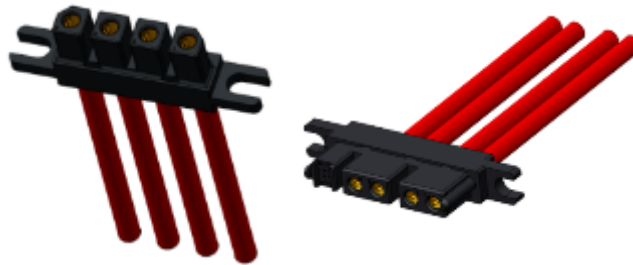
## CoolPower® Products

### CoolPower® Slim Drawer



- Low profile, 10.8mm above board
- Up to 60A per pin
- First mate last break sequencing for hot swap applications

### CoolPower® EV



- Up to 115A per pin
- Configurable Power + Signal contacts
- Half-bullet guides for additional gatherability in blind mate applications
- Multiple latching and panel-mount terminations available

### CoolPower® Slim Drawer Mini



- Small footprint 5.6mm x 14mm
- Up to 35A per pin
- Right angle, vertical, and orthogonal configurations



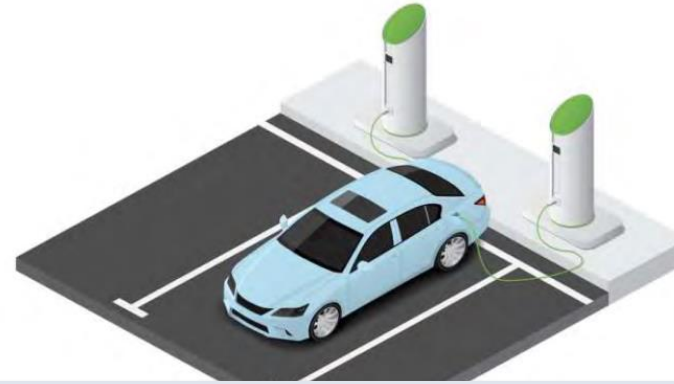
# Power Solutions Products

## Level 2 EV Charging

- **PwrBlade®**
- **PwrBlade+®**
- **PwrBlade+® I/O**



- Modular power + signal contacts
- Low profile for improved airflow
- Right-angle/vertical configurations

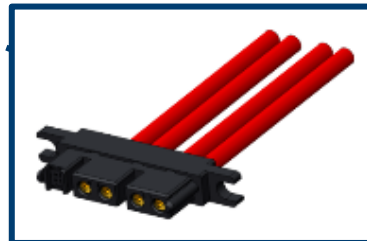


Ideal solutions for an internal power module that requires a board-to-board connection.

- **PwrBlade® ULTRA**
- **EazyPwr™**
- **CoolPower® EV**



- Blind-mate guides
- AC/DC/Signal contact options
- Up to 115A per pin



Rugged blind-mate guides are integrated to make installation easier in the field.

### I/O Solutions



**BarKlip® BK100 I/O**  
100A



**BarKlip® BK150 I/O**  
150A



**BarKlip® BK200 I/O**  
200A



**BarKlip® BK500 I/O**  
500A

### PCB/Busbar Solutions



**BarKlip® XP1000**  
1000A



**BarKlip® XP500**  
500A



**BarKlip® XP250**  
250A



**BarKlip® BK300**  
300A

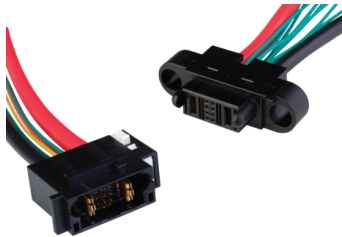


**BarKlip® BK150**  
150A



## BarKlip® I/O

- Mates to busbar applications
- Ultrasonic welding between cable and contacts for reliability
- Low contact resistance 0.5mΩ (end-of-life)



## PwrBlade+® I/O

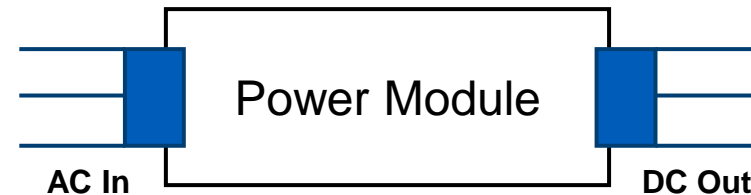
- Multiple configurations and termination styles
- Up to 75A per contact
- Can be used for AC-in DC-out configurations



## Level 3 Chargers

The BarKlip® series is frequently used in applications that have higher power requirements such as a rack-mounted power module

## Level 3 Charging Station

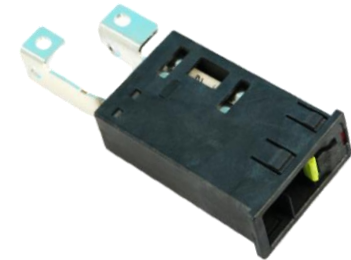


Our I/O solutions are integrated in charging piles that need to convert AC power from the grid to DC power to the vehicle

# EasyPwr™ Series

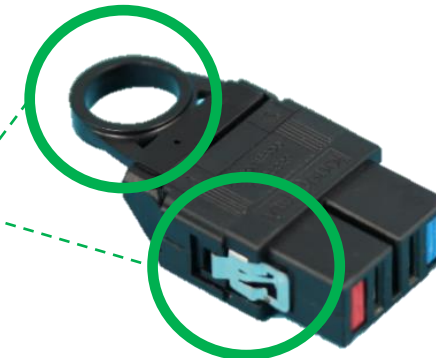
**Design a custom solution with  
our EasyPwr™ components**

- + Field termination
- + Power contacts: 20A - 125A
- + Application range: 48V - 400V
- + Outdoor/water sealing technology
- + Optional Fused safety



\*Easy to replace cable

\*Easy to mate/unmate





ACS Power Solutions can support applications that require sealing for wire-to-wire or wire-to-board configurations.

## Wireless EV Charging

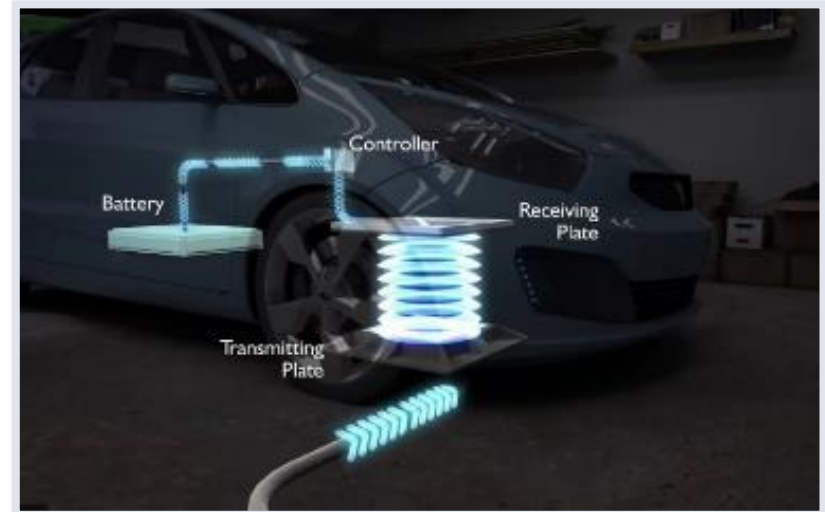
PwrBlade+® I/O

CoolPower® I/O

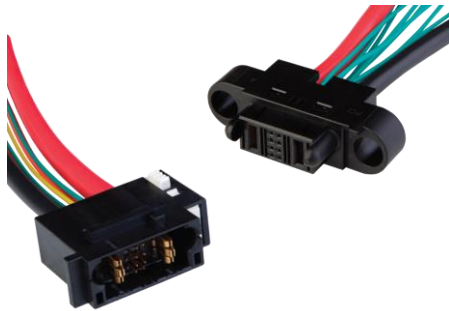
EazyPwr™



- Supports field termination
- Outdoor/water sealing technology up to IP69k
- Easy to replace cable
- Power + Signal configurations
- 20A-125A and 48V-400V
- Metal latching system ensures reliability



## PwrBlade+® I/O



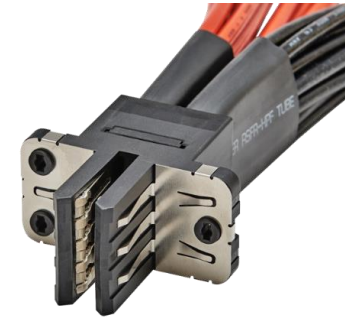
- Up to 75A/Contact
- Squeeze-to-release latching, slide-to-lock, or panel-mount termination configurations
- 12.6mm height above PCB
- 0.7mΩ end-of-life resistance

## CoolPower® EV



- Up to 115A/Pin
- AC/DC or signal pin options
- Multiple latching and panel-mount terminations available
- Blind-mate integrated guides
- 0.7mΩ end-of-life resistance

## BarKlip® BK500



- Up to 500A
- Ultrasonically welded between wire and contact
- 0.5mΩ end-of-life contact resistance