

BarKlip® XP Connectors

HIGH POWER AND LOW RESISTANCE BUSBAR CONNECTOR

Amphenol’s BarKlip® XP connectors feature independent points of contact that provide overall lower resistance and greater efficiency. BarKlip® XP can distribute anywhere from 150A to 1000A of power to busbar power distribution applications.

BarKlip® XP is a perfect power interconnect solution for applications such as energy storage systems, battery backup units, next-generation data center technologies, robotics, EV charging stations, and other high-current power distribution applications.

- Distributes power ranging from 150A to 1000A
- Independent points of contacts provide overall lower resistance
- Silver and Tin plated contacts for higher reliability



TARGET MARKETS



FEATURES

- Multiple independent points of contact
- Solder or screw mount options available
- Bi-metal design
- Silver plated contacts or Tin plated contacts
- New secondary chassis grounding contacts

BENEFITS

- Offers low resistance and high reliability
- Enables termination flexibility
- High conductivity performance
- Provides lower resistance (<0.2mΩ) at a lower cost
- Provides additional grounding functionality for safety

TECHNICAL INFORMATION

MATERIAL

- Contacts: High conductivity Copper Alloy
- Spring: Stainless steel
- Guide: Stainless steel

MECHANICAL PERFORMANCE

- Durability: 100 mating cycles
- Mating Force: 60N–200N max. initial, 250N max. after durability
- Unmating Force: 4N to 150N
- High Temperature Life: Per EIA364–17
- Mixed Flow Gas: Per EIA364–65 Class II A
- Thermal Shock: EIA 364–32C, Test Condition III
- Humidity Cycle: Reference–EIA 364–31A, Method III, Condition C

ELECTRICAL PERFORMANCE

- Current Rating: 150A–1000A max.
- Contact Resistance
 - BarKlip® XP250: <0.2mΩ
 - BarKlip® XP500: <0.1mΩ
 - BarKlip® XP1000: <0.1mΩ

ENVIRONMENTAL

- Operating Temperature Range: –40°C to +125°C

PACKAGING

- Trays

SPECIFICATIONS

- Product Specification
 - BarKlip® XP250: S–PBF–00
 - BarKlip® XP500: S–PWR–F002
 - BarKlip® XP1000: S–PWR–F003

TARGET MARKETS/APPLICATIONS



Networking Equipment



AC/DC Pluggable Power Supplies



Hyperscale Computing Architectures



EV Charging

PART NUMBERS

Description	Current Rating	Part Numbers
BarKlip® XP150	–	PBF00XR0XXX
BarKlip® XP250	–	PBF008R003S
BarKlip® XP500, Vertical	500A @ 50°C	PWRF0500H001
BarKlip® XP500, Vertical	500A @ 30°C	PBF500V7600MSF
BarKlip® XP500, Right Angle	500A @ 30°C	PBF500S3009SS
BarKlip® XP1000	–	PWRF1000H001