

PowerMod® HP

Dual Pole Female - Series A

PowerMod HP connectors, developed by Anderson Power Products, are the innovative New Generation of High Power Interconnections for the Electronics Industry.

The touch-safe, positive latching, PowerMod HP female connector design presents a new standard for high power connector safety. The ergonomic latch release is simple to operate and is colored blue for clear identification. Housings are a black UL94 V-0 flame retardant material.

PowerMod HP contacts are durable and rated for circuit interruption (true hot-pluggable). Series A contacts are available in #6 to #2 American wire gauge and 16mm² to 35mm² metric wire sizes for global design freedom. Our optional strain relief ensures superior contact reliability under adverse operating conditions.

The PowerMod HP connectors embody the highest quality in the industry and meet all applicable industry standards.

Features

- **Positive latching**

Integral latches with ergonomic release provide over 50 lbs retention

- **Touch safe female connectors**

Provides IP20 protection for safe, energized use outside the electronics cabinet

- **High performance, hot pluggable female contacts**

Our patented design provides greater longevity for high power, elevated temperature applications

- **Strain relief option**

Reduces risk of wire insulation creep and reduces transmission of wire loads to contacts improving service life

- **Low connector mating forces**

Connectors are easily mated and un-mated



SPECIFICATIONS

Electrical

| | |
|--------------------------------------|--------------|
| Current Rating (Amperes) | |
| UL | 210 |
| CSA (30°C Rise) | 130 |
| UL / CSA Voltage Rating | 600 |
| Wire Size (AWG) | #6 to #2 |
| (mm ²) | 16 to 35 |
| Dielectric Withstanding Voltage (AC) | 2200 |
| Operating Temperature (°C) | -40° to 130° |
| (°F) | -40° to 266° |
| Ambient Temperature (°C) | -40° to 85° |
| (°F) | -40° to 185° |

Mechanical

| | |
|---|----------------------|
| Mating Force | 15 lbs. (66.72N) avg |
| Latch Retention Force | 50 lbs. (222N) min |
| Contact Retention Force | 100 lbs. (445N) min |
| Mating | |
| a. No Load (mating cycles) | 500 |
| b. Under Load (Hot Plug 250 mating cycles @ 120V) | 80A |

Materials

| | |
|-----------------------|---------------------------|
| Housing & Cable Clamp | PBT UL94 V-0 |
| Latch | PEI UL94 V-0 |
| Contacts | Copper alloy silver plate |
| Hardware | Steel zinc chromate |



File No. E26226

ORDERING INFORMATION

PowerMod HP Part Number Plan - Dual Pole Female

| Series | Series | Gender | Model | Wire Size |
|--|--------|--------|-------|-----------|
| PMHP | A | F | 11 | S05 |
| A * | | | | |
| F - Female | | | | |
| 11 - Dual Pole Straight | | | | |
| 12 - Dual Pole Straight with Cable Clamp | | | | |
| S05 - 6 AWG | | | | |
| S04 - 16mm ² | | | | |
| S03 - 4 AWG | | | | |
| S02 - 25mm ² | | | | |
| S01 - 2 AWG & 35mm | | | | |
| * Maximum wire size 2 AWG or 35mm ² | | | | |

Components

| Part Number | Description |
|-------------|--|
| PMHPAF11 | Housing Kit, Female, Dual Pole, Straight |
| PMHPAF12 | Housing Kit with Cable Clamp, Female, Dual Pole, Straight |
| PMHPAS05 | Socket, Series A, Crimp for 6 AWG wire |
| PMHPAS04 | Socket, Series A, Crimp for 16mm ² wire |
| PMHPAS03 | Socket, Series A, Crimp for 4 AWG wire |
| PMHPAS02 | Socket, Series A, Crimp for 25mm ² wire |
| PMHPAS01 | Socket, Series A, Crimp for 2 AWG & 35mm ² wire |
| PMHPAC02 | Dual Pole Cable Clamp Kit |

Dual Pole Female - Series A

ORDERING INFORMATION

Tooling

| Pneumatic Production Tool | | | | |
|-----------------------------|-------------|---------|-------------|------------------|
| Wire Size | Part Number | Die P/N | Locator P/N | Number of Crimps |
| #2 AWG 35mm ² | 1387G2 | 1303G13 | 1304G19 | 2 |
| 25mm ² | 1387G2 | 1303G13 | 1304G19 | 2 |
| #4 AWG | 1387G2 | 1303G14 | 1304G19 | 2 |
| 16mm ² | 1387G2 | 1303G14 | 1304G19 | 2 |
| #6 AWG | 1387G2 | 1303G14 | 1304G19 | 2 |

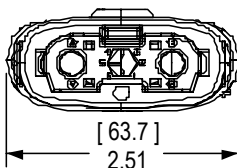
| Hand Tool | | | | |
|-----------------------------|-----------|---------|---------|------------------|
| Wire Size | Hydraulic | Battery | Die P/N | Number of Crimps |
| #2 AWG 35mm ² | 1387G3 | 1370G1 | 1322G7 | 2 |
| 25mm ² | 1387G3 | 1370G1 | 1322G11 | 2 |
| #4 AWG | 1387G3 | 1370G1 | 1322G8 | 2 |
| 16 mm ² | 1387G3 | 1370G1 | 1322G10 | 2 |
| #16 AWG | 1387G3 | 1370G1 | 1322G9 | 2 |

Accessories

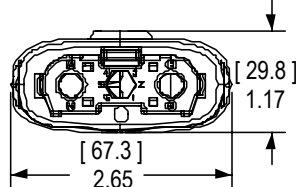
| Part Number | Description |
|-------------|-------------|
| PMHPAFDC | Dust Cover |

DIMENSIONS

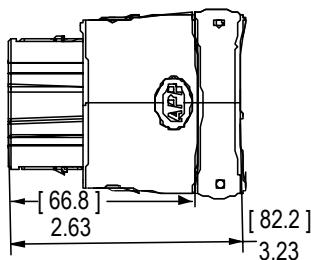
Front Without Strain Relief



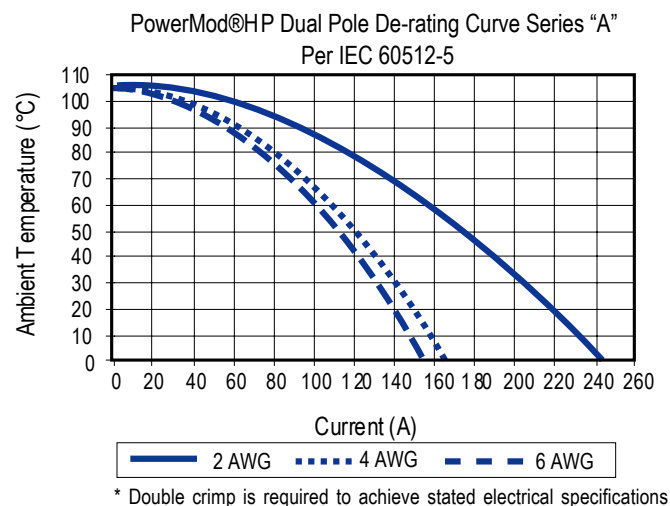
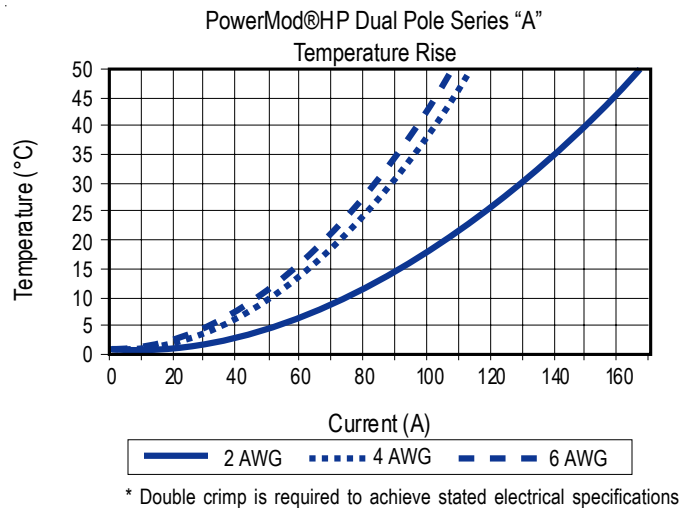
Front With Strain Relief



Side



TEMPERATURE CHART



MATING CONNECTORS

Dual Pole Straight Male



Dual Pole Panel Mount Male



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