

# 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 16mm<sup>2</sup> to 35mm<sup>2</sup> 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 <sup>2</sup> )	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 <sup>2</sup>				
S03 - 4 AWG				
S02 - 25mm <sup>2</sup>				
S01 - 2 AWG & 35mm				
* Maximum wire size 2 AWG or 35mm <sup>2</sup>				

#### 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 <sup>2</sup> wire
PMHPAS03	Socket, Series A, Crimp for 4 AWG wire
PMHPAS02	Socket, Series A, Crimp for 25mm <sup>2</sup> wire
PMHPAS01	Socket, Series A, Crimp for 2 AWG & 35mm <sup>2</sup> 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 <sup>2</sup>	1387G2	1303G13	1304G19	2
25mm <sup>2</sup>	1387G2	1303G13	1304G19	2
#4 AWG 16mm <sup>2</sup>	1387G2	1303G14	1304G19	2
#6 AWG	1387G2	1303G14	1304G19	2

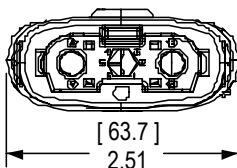
Hand Tool				
Wire Size	Hydraulic	Battery	Die P/N	Number of Crimps
#2 AWG 35mm <sup>2</sup>	1387G3	1370G1	1322G7	2
25mm <sup>2</sup>	1387G3	1370G1	1322G11	2
#4 AWG 16 mm <sup>2</sup>	1387G3	1370G1	1322G8	2
#16 AWG	1387G3	1370G1	1322G9	2

### Accessories

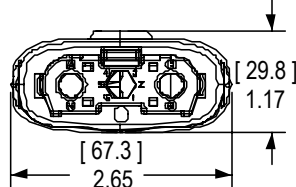
Part Number	Description
PMHPAFDC	Dust Cover

## DIMENSIONS

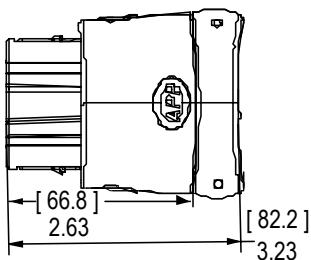
### Front Without Strain Relief



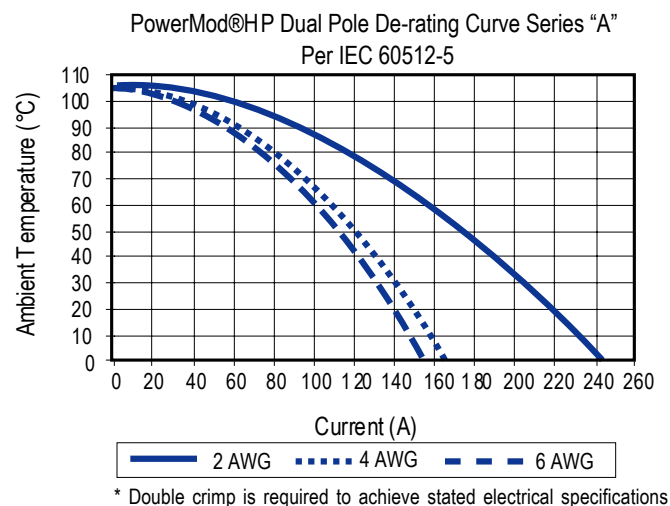
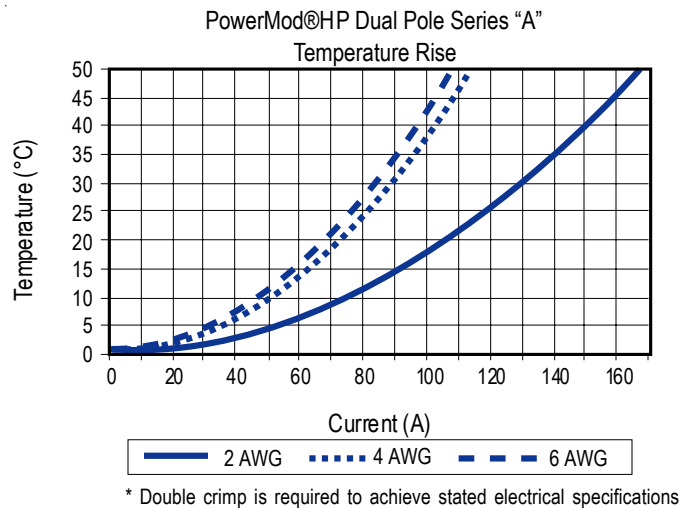
### Front With Strain Relief



### Side



## TEMPERATURE CHART



## MATING CONNECTORS

### Dual Pole Straight Male



### Dual Pole Panel Mount Male



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