

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 \*strain relief ensures superior contact reliability under adverse operating conditions.

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

\* Strain relief not optional on right angle

### Features

- **Right angle connector**  
*Offers short mated length for tight wiring applications*
- **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*
- **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 Right Angle Female

Series	Series	Gender	Model	Wire Size
PMHP	A	F	13	S10
A *				
F - Female				
13 - Dual Pole R/A with Cable Clamp				
S10 - 6 AWG				
S09 - 16mm <sup>2</sup>				
S08 - 4 AWG				
S07 - 25mm <sup>2</sup>				
S06 - 2 AWG & 35mm <sup>2</sup>				

\* Maximum wire size 2 AWG or 35mm<sup>2</sup>

#### Components

Part Number	Description
PMHPAF13	Housing Kit With Cable Clamp, Female, Dual Pole, R/A
PMHPAS10	Socket, Series A, Crimp for 6 AWG wire
PMHPAS09	Socket, Series A, Crimp for 16mm <sup>2</sup> wire
PMHPAS08	Socket, Series A, Crimp for 4 AWG wire
PMHPAS07	Socket, Series A, Crimp for 25mm <sup>2</sup> wire
PMHPAS06	Socket, Series A, Crimp for 2 AWG & 35mm <sup>2</sup> wire

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www.andersonpower.com

## 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	1387G2	1303G14	1304G19	2
16mm <sup>2</sup>	1387G2	1303G14	1304G19	2
#6 AWG	1387G2	1303G14	1304G19	2

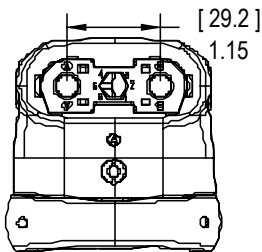
Hand Tool				
Wire Size	Hydraulic	Battery	Die P/N	Number of Crimps
#2 AWG 35mm <sup>2</sup>	1387G3	1370	1322G7	2
25mm <sup>2</sup>	1387G3	1370	1322G11	2
#4 AWG	1387G3	1370	1322G8	2
16mm <sup>2</sup>	1387G3	1370	1322G10	2
#6 AWG	1387G3	1370	1322G9	2

### Accessories

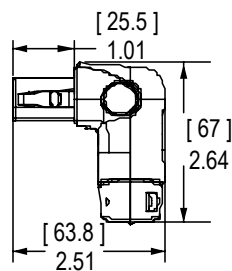
Part Number	Description
PMHPAFDC	Dust Cover

## DIMENSIONS

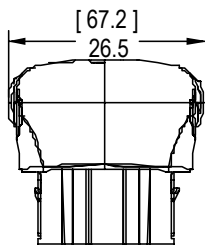
Front With  
Strain Relief



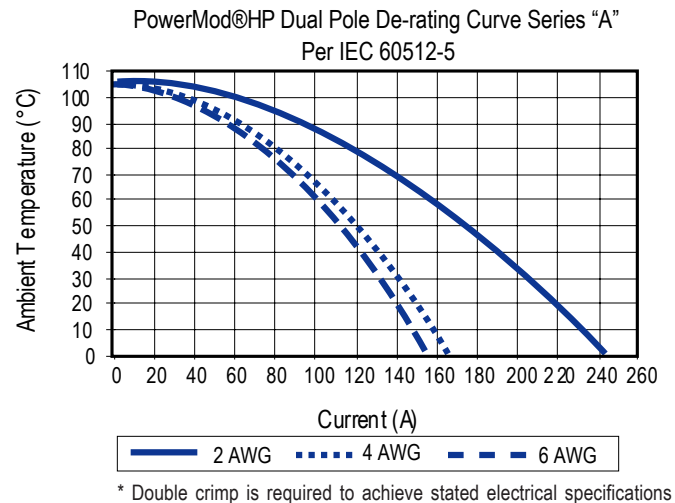
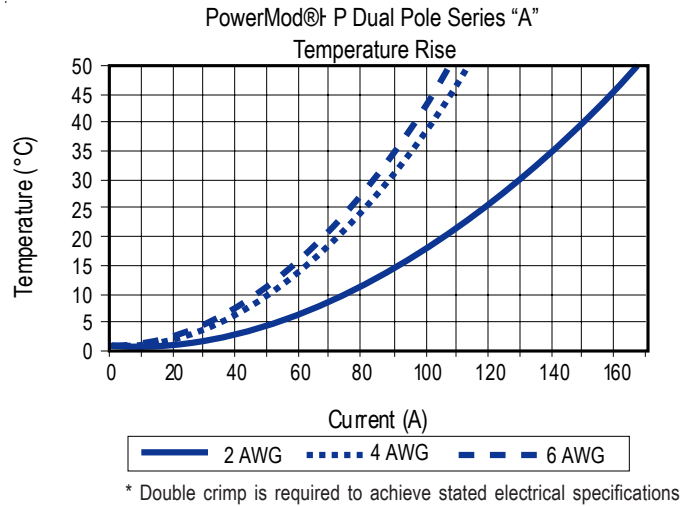
Side With  
Strain Relief



Top



## TEMPERATURE CHART



## MATING CONNECTORS

Dual Pole  
Straight Male



Dual Pole Panel  
Mount Male

