PowerMod® HP

Single 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.

APP 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	220
CSA (30°C Rise)	130
UL / CSA Voltage Rating	600
Wire Size (AWG)	#6 to #2
(mm²)	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	7 lbs. (31.14N) 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

RoHS APP c UL us File No. E26226

ORDERING INFORMATION

PowerMod HP Part Number Plan - Single Pole Female

Series	Series	Gender	Model	Wire Size
PMHP	A	F	01	S05

A *
F - Female
01 - Single Pole Straight
02 - Single Pole Straight with Cable Clamp
S05 - 6 AWG
S04 - 16mm²
S03 - 4 AWG
S02 - 25mm²
S01 - 2 AWG & 35mm²

** Maximum wire size 2 AWG or 35mm²*

Components

Part Number	Description
PMHPAF01	Housing Kit, Female, Single Pole, Straight
PMHPAF02	Housing Kit with Cable Clamp,Female, Single Pole, Straight
PMHPAS05	Socket, Series A, Crimp for 6 AWG wire
PMHPAS04	Socket, Series A, Crimp for 16mm² wire
PMHPAS03	Socket, Series A, Crimp for 4 AWG wire
PMHPAS02	Socket, Series A, Crimp for 25mm² wire
PMHPAS01	Socket, Series A, Crimp for 2 AWG & 35mm² wire
PMHPAC01	Single Pole Cable Clamp Kit

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www.andersonpower.com

Single Pole
Female - Series A

ORDERING INFORMATION

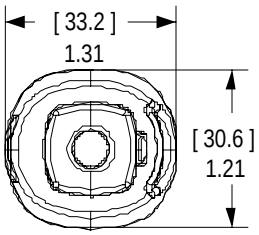
Tooling

Pneumatic Production Tool				
Wire Size	Part Number	Die P/N	Locator P/N	Number of Crimps
#2 AWG 35mm²	1387G2	1303G13	1304G19	2
25mm²	1387G2	1303G13	1304G19	2
#4 AWG	1387G2	1303G14	1304G19	2
16mm²	1387G2	1303G14	1304G19	2
#6 AWG	1387G2	1303G14	1304G19	2

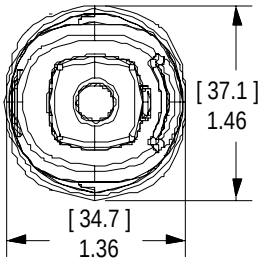
Hand Tool				
Wire Size	Hydraulic	Battery	Die P/N	Number of Crimps
#2 AWG 35mm²	1387G3	1370	1322G7	2
25mm²	1387G3	1370	1322G11	2
#4 AWG	1387G3	1370	1322G8	2
16mm²	1387G3	1370	1322G10	2
#6 AWG	1387G3	1370	1322G9	2

DIMENSIONS

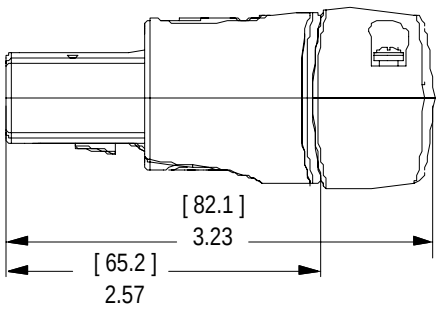
Front Without Strain Relief



Front With Strain Relief

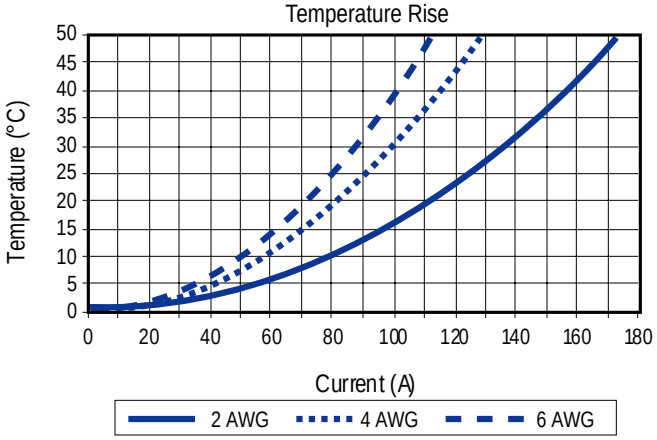


Side



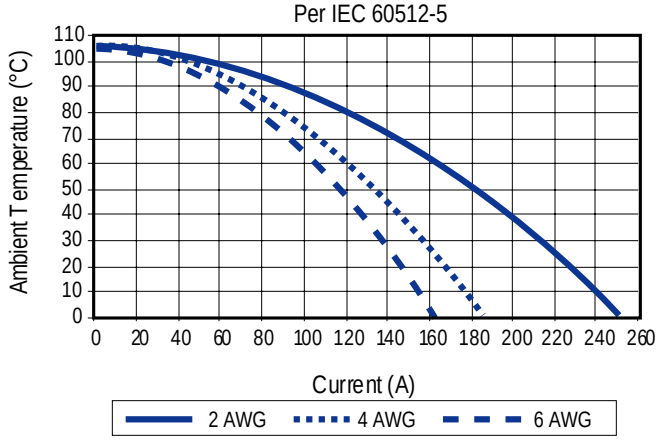
TEMPERATURE CHART

PowerMod®HP Single Pole Series "A"
Temperature Rise



* Double crimp is required to achieve stated electrical specifications

PowerMod®HP Single Pole De-rating Curve Series "A"
Per IEC 60512-5



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MATING CONNECTORS

Single Pole Bus Bar Male

Single Pole Male

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