APP
Anderson Power Products®

An **IDEAL** Company

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 *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.

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	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-II Compliant **APP** | c **UL** US File No. E26226

ORDERING INFORMATION

PowerMod HP Part Number Plan - Single Pole Right Angle Female

Series	Series	Gender	Model	Wire Size
PMHP	A	F	03	S10

A *
F - Female
03 - Single Pole R/A with cable clamp
S10 - 6 AWG
S09 - 16mm²
S08 - 4 AWG
S07 - 25mm²
S06 - 2 AWG & 35mm²
Maximum wire size 2 AWG or 35mm²

Components

Part Number	Description
PMHPAF03	Housing Kit with Cable Clamp,Female, Single Pole, R/A
PMHPAS10	Socket, Series A, Crimp for 6 AWG wire
PMHPAS09	Socket, Series A, Crimp for 16mm² wire
PMHPAS08	Socket, Series A, Crimp for 4 AWG wire
PMHPAS07	Socket, Series A, Crimp for 25mm² wire
PMHPAS06	Socket, Series A, Crimp for 2 AWG & 35mm² wire

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	1370G1	1322G7	2
25mm²	1387G3	1370G1	1322G11	2
#4 AWG	1387G3	1370G1	1322G8	2
16 mm²	1387G3	1370G1	1322G10	2
#16 AWG	1387G3	1370G1	1322G9	2

DIMENSIONS

Side

[26.4]
1.04

[70.1]
2.76

Top

[68.3]
2.69

[37.1]
1.46
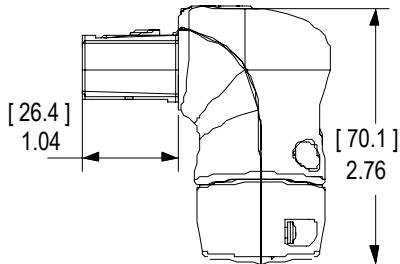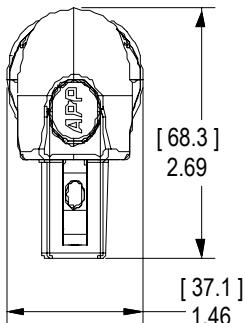
Front
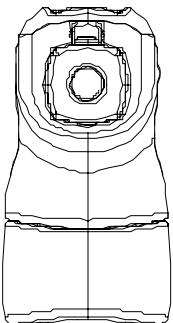
TEMPERATURE CHART

PowerMod®HP Single Pole Series "A"
Temperature Rise

— 2 AWG   ···· 4 AWG   - - - 6 AWG
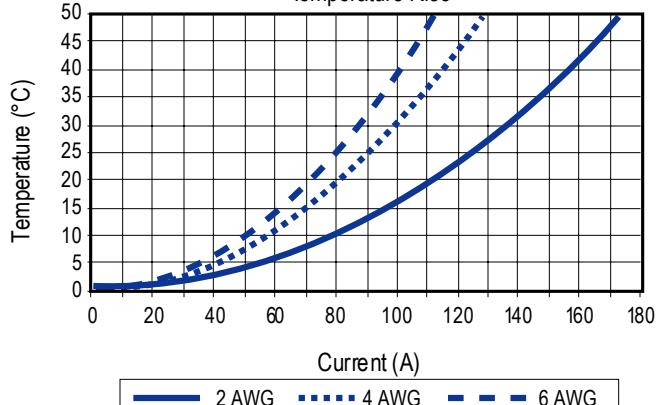
* Double crimp is required to achieve stated electrical specifications

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

— 2 AWG   ···· 4 AWG   - - - 6 AWG
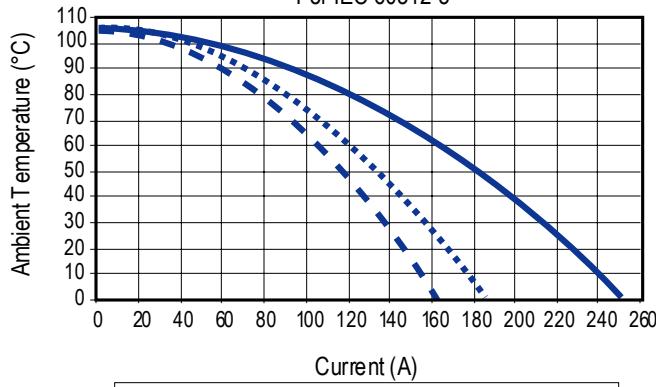
* Double crimp is required to achieve stated electrical specifications

MATING CONNECTORS

Single Pole Male

Single Pole Bus Bar Male

Mouser Electronics

Authorized Distributor

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