

An IDEAL Company

PowerMod®HP

Single Pole Right Angle 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 *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		Mechanical	
Current Rating (Amperes)		Mating Force	7 lbs. (31.14N) avg
UL	220	Latch Retention Force	50 lbs. (222N) min
CSA (30°C Rise)	130	Contact Retention Force	100 lbs. (445N) mir
UL / CSA Voltage Rating	600	Mating	
Wire Size (AWG)	#6 to #2	a. No Load (mating cycles)	500
(mm²)	16 to 35	b. Under Load (Hot Plug 250 mating cycles @ 120V)	80A
Dielectric Withstanding Voltage (AC)	2200	Materials	
Operating Temperature (°C)	-40° to 130°	Housing & Cable Clamp	PBT UL94 V-0
(°F)	-40° to 266°	Latch	PEI UL94 V-0
Ambient Temperature (°C)	-40° to 85°	Contacts	Copper alloy silver pla
(°F)	-40° to 185°	Hardware	Steel zinc chromate





ORDERING INFORMATION

PowerMod HP Part Number Plan - Single Pole Right Angle Female

,g.o				
Series	Series	Gender	Model	Wire Size
PMHP	А	F	03	S10
A *				
F - Femal	e			
03 - Singl	e Pole R/A with	cable clamp		

S10 - 6 AWG S09 - 16mm² S08 - 4 AWG

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

Single Pole Right Angle 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

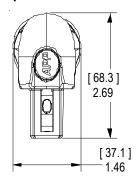
Hand Tool				
Wire Size	Hydraulic	Battery	Die P/N	Number of Crimps
#2 AWG 35mm²	1387G3	1370G1	1322G7	2
25mm²	1387G3	1370G1	1322G11	2
#4 AWG	1387G3	1370G1	1322G8	2
16 mm²	1387G3	1370G1	1322G10	2
#16 AWG	1387G3	1370G1	1322G9	2

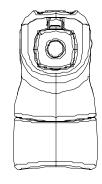
DIMENSIONS

Side

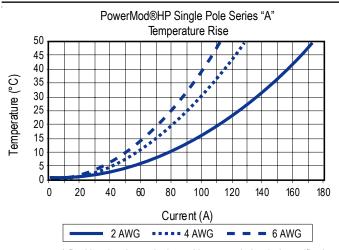


Top Front



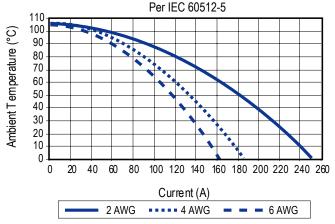


TEMPERATURE CHART



^{*} Double crimp is required to achieve stated electrical specifications

PowerMod®HP Single Pole De-rating Curve Series "A"



^{*} Double crimp is required to achieve stated electrical specifications

MATING CONNECTORS

Single Pole Male

Single Pole Bus Bar Male





All Data Subject To Change Without Notice

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