

An **IDEAL** Company

PowerMod[®]**HP** Single Pole Right Angle Female - Series B

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 B contacts are available in 1/0 to 4/0 American wire gauge and 50mm² to 95mm² 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.

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



* Strain relief not optional on right angle

SPECIFICATIONS

Electrical		Mechanical	
Current Rating (Amperes)		Mating Force	16.5 lbs. (74N) avg
UL	450	Latch Retention Force	50 lbs. (222N) min
CSA (30°C Rise)	280	Contact Retention Force	150 lbs. (667N) min
UL / CSA Voltage Rating	600	Mating	
Wire Size (AWG)	1/0 to 4/0	a. No Load (mating cycles)	500
(mm²)	50 to 95	b. Under Load (Hot Plug 250 mating cycles @ 120V)	150A
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 plate
(°F)	-40° to 185°	Hardware	Steel zinc chromate

V APP C US File No. E26226

ORDERING INFORMATION

PowerMod HP Part Number Plan - Single Pole Right Angle Female

Series	Series	Gender	Model	Wire Size			
PMHP	В	F	03	S09			
B * F - Female							
03 - Single Pole R/A with cable clamp S09 - 1/0 AWG to 50mm ² S08 - 2/0 AWG to 70mm ² S07 - 95mm ² S06 - 4/0 AWG							
* Maximum wire size 4/0 AWG							

Components

Part	
Number	Description
PMHPBF03	Housing Kit with Cable Clamp, Female, Single Pole, R/A
PMHPBS09	Socket, Series B, Crimp for 1/0 AWG to 50mm ² wire
PMHPBS08	Socket, Series B, Crimp for 2/0 AWG to 70mm ² wire
PMHPBS07	Socket, Series B, Crimp for 95mm ² wire
PMHPBS06	Socket, Series B, Crimp for 4/0 AWG wire

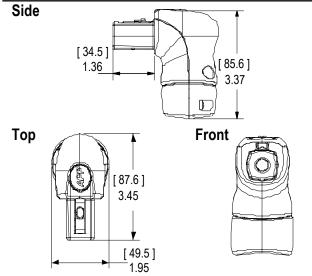
Single Pole Right Angle Female - Series B

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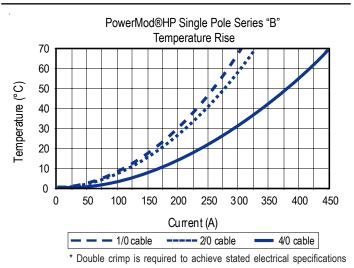
Tooling

Pneumatic Production Tool						
Wire Size	Part Number	Die P/N	Locator P/N	Number of Crimps		
4/0	1387G 2	1303G3	1304G25	2		
95mm²	1387G2	1303G17	1304G25	2		
2/0-70mm ²	1387G2	1303G16	1304G23	2		
1/0-50mm²	1387G2	1303G 8	1304G23	2		
Hand Tool						
Wire Size	Hydraulic	Battery	Die P/N	Number of Crimps		
4/0	1387G3	1370G1	1322G14	2		
95mm²	1387G3	1370G1	1322G1	2		
2/0-70mm²	1387G3	1370G1	1322G3	2		
1/0-50mm²	1387G3	1370G1	1322G13	2		
Hydraulic Tool						
Wire Size	Part Number	Number of Crimps				
4/0	1368	2				
95mm²	1368	2				
2/0-70mm ²	1368	2				
1/0-50mm ²	1368	2				

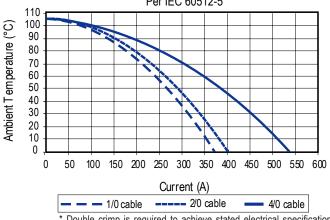
DIMENSIONS



TEMPERATURE CHART



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



* Double crimp is required to achieve stated electrical specifications

MATING CONNECTORS

Single Pole Male



Single Pole Bus Bar Male



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