

ADSA120 Single pole Power Connector Specification

Revision Record

Version	Description	Effective Date	Edited by
00	First release	20181205	Edward

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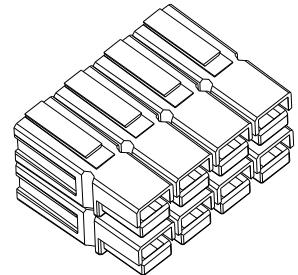
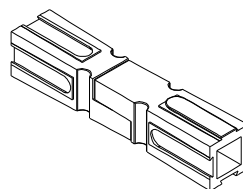
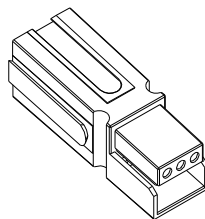
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1. Product Overview

1.1 Description

ADS Aitm series High Current Power Connector is a brand from China, “A” and “B” series identify the single pole and dual pole products, the connectors provide cost-effective quality and reliability, design flexibility and safety, equal the famous brands APP, REMA, TYCO,AMP,SMH and KSJ.

The power connectors are widely application in Military, Avionics, Boat, Yacht, Bus, Vehicles, Golf Cart , Forklift, e-sweeper, all kind of automotive, posts and telecommunications, communications, electricity, solar system, coal, aerospace, defense, surveillance systems, railway signals, medical equipment, instruments and meters, EV Charging system, AGV, IoT, Robot and other automation fields.



1.2 Features

- **Genderless Housings**

Quick and easy assembly

- **Low Resistance Connection**

Silver or tin plated copper contacts inside housings provide tightly connection

- **Stackable Modular Housings**

Four kinds of sizes can meet the one your selection

- **Connection Versatility**

Contacts of Cable, PCB or Bus Bar are in same housing

- **Color identified housings**

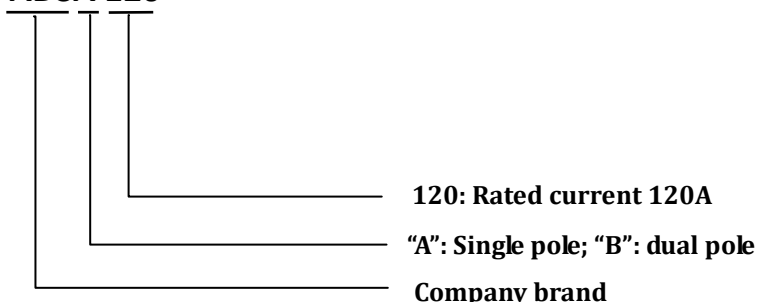
Prevent accidental mating at different voltage levels

- **Self-Securing Design**

Stainless steel springs create a robust force between the contacts to fix the connector in the mated position

1.3 Product Name Definition

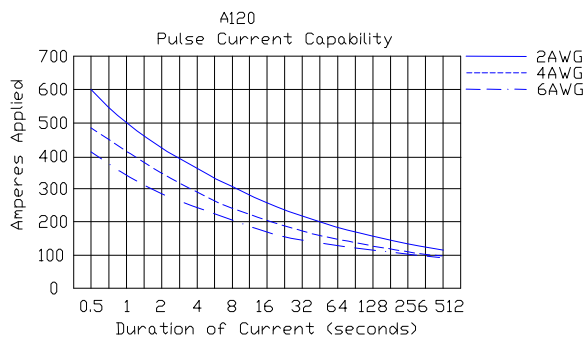
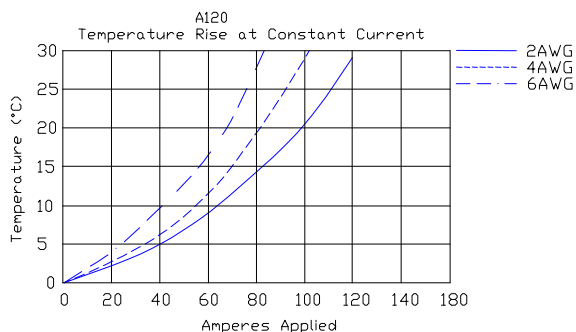
ADSA 120



2. Specifications

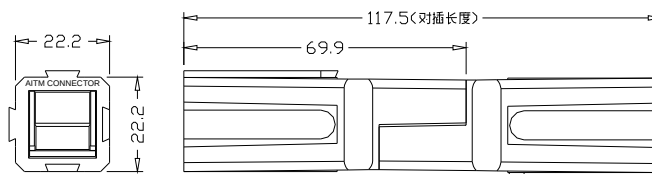
Connector Model		ADSA120
Rated Current	A	120
Rated Voltage	V	600
Contact Barrel Wire Size	AWG/ mm ²	2/ 4/6AWG (13.3mm ² -21.1/33.6mm ²)
Average Contact Resistance	mΩ	0.05
Insulation Withstanding Test Voltage	Vdc	2200
Insulation Resistance	MΩ	>500
No load Contact/Disconnect Cycles	times	>10,000
Under Load (Hot Plug 250 cycles@120V	A	60
Avg. Connect/Disconnect Force	N	85
Operating Temperature Range	C	-20°to 125°
Size	mm	69.9*22.2*22.2
Flammability Rating of Housing Material		UL94 V-0
Contact material		Silver plated copper

3. Temperature Rise Charts



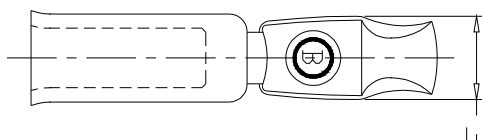
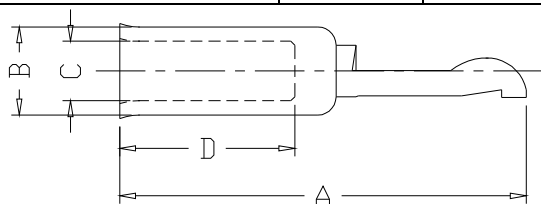
4. Housings

Parts Number	Voltage	Housings Color	
SI1321G3	24V	Red	
SI1321G4	72V	Green	
SI1321G1	80V	Black	
SI1321G2	24V	White	
SI1321	48V	Blue	



5. Contacts

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	Dia.(AWG\mm ²)
SH1319G2	50.8	11.2	5.6	21.3	10.4	2AWG\33.6 mm ²
SH1319G4	50.8	11.2	7.6	21.3	10.4	4AWG\21.1 mm ²
SH1319G6	50.8	11.2	8.6	21.3	10.4	6AWG\13.3 mm ²



6. Contacts Terminal On Board

Part Numbers	-A- (mm)	-B- (mm)	-C-(mm)	-D-(mm)	-E-(mm)	Dia.(AWG\mm ²)
SH5075BBS	70	17.1	7.0	2.0	7.3	#10-24THD

