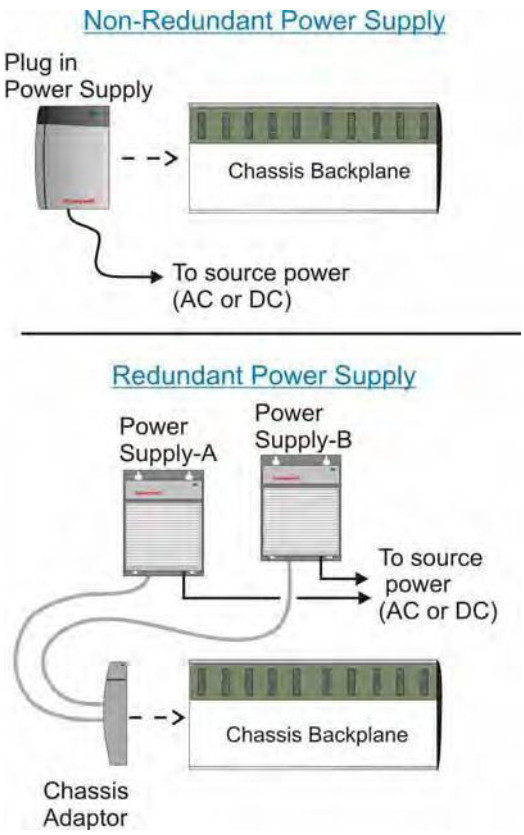
5. Chassis Series-A Power System

There is a non-redundant and redundant version of the power supply system.



Non-Redundant Power: With this implementation a Chassis Series-A power supply module slides onto the left side of the chassis. This connects the DC output voltage to the chassis backplane and powers all modules that are inserted into one of the chassis slot positions. There is a version that accepts AC source power and a version that accepts DC source power.

Redundant Power: With this implementation two pa el mounted Chassis Series-A power supplies are conne ted to the chassis through a chassis adaptor module that conne ts to the left side of the chassis. If one power supply fails, the other will carry the load. There is a version that accepts AC source power and a version that accepts DC source power.

PMIO Power System Redundancy: The PMIO platform provides a fully redundant and robust power supply assembly. This supply generates 24 Vdc nd c n be used to as the source power for a DC type Chassis–A power supply.

Redundant Power System Versions: There are two versions of the r dundant power system. They differ by the cables and chassis adaptor (power supplies are the same). Older versions may exist in the field, but they are no longer available for sale. The table below shows the old and new versions and associated model numbers.

Model No.		Description	No. req.	Notes
TC or TK-	RPDXX1	24 Vdc Power Supply	2	Usable with both versions.
TC or TK-	RPCXX1	120 Vac Power Supply	2	Usable with both versions.
TC-	PRSC03	Power Cable (female connector both ends)	2	Old version- not available.
TC or TK-	RPSCA1	Chassis Adaptor (male connector)	1	Old version- not available.
TC-	PRSC04	Power Cable (female connector for power supply male connector for adaptor)	2	New version – active.
TC or TK-	RPSCA2	Chassis Adaptor (female connector)	1	New version – active.
Note: all power cables are 1 meter long.				

6.1 Summary of Series-A Modules and Model Numbers

Table 6-2: Standard/Traditional I/O Modules & Model Numbers

Module Description (All modules below are single-wide modules)	**No. of I/O Channels**	**No. of TB Pins (1)**	**Honeywell Model (2) TC or TK-**
Analog Input and Output			
High Level Analog Input, (10V & 4-20ma)	6	20	IAH061
Analog Output, (4-20ma)	6	20	OAH061
Analog Output, (10v)	6	20	OAV061
Thermocouple Input *see note (4*)	6	20	IXL061
Thermocouple Input	6	20	IXL062
RTD Input	6	20	IXR061
Analog Input, Voltage and Current	16	36	IAH161
Analog Output, Current/Voltage	8	20	OAV081
Analog Input, Voltage/Current/HART enabled	8	36	HAI081
Analog Output, Voltage/Current/HART enabled	8	20	HAO081
Isolated Discrete Relay			
24-220 VAC Output (8 NO & 8 NC)	8	36	ORC081
24-220 VAC Output (16 NO)	16	36	ORC161
AC Input (Discrete)			
120 VAC, (Isolated)	16	36	IDK161
220 VAC, (Isolated)	16	36	IDW161
120 VAC, (Diagnostic)	8	20	IDX081
120 VAC	16	20	IDA161
120 VAC (2 Isolated Groups)	32	36	IDB321
AC Output (Discrete)			
120/220 VAC, (Isolated)	16	36	ODK161
120 VAC, (Diagnostic)	8	20	ODX081
120/220 VAC,	16	20	ODA161
DC Input (Discrete)			
24 VDC (Isolated)	16	36	IDJ161
10-30 VDC (Diagnostic)	16	36	IDX161
24 VDC	32	36	IDD321
DC Output (Discrete)			
24 VDC (Isolated)	16	36	ODJ161
10-30 VDC (Diagnostic)	16	36	ODX161
24 VDC	32	36	ODD321