Power Supply Specifications (1746-P5, -P6, and -P7)

Description:	**Specification: 1746-**			
	P5	**P6**	**P7**	
Line Voltage	90-146V dc	30-60V dc	10-30V dc[5]	
Typical Line Power Requirement	85 VA	100 VA	12V dc input: 50 VA	24V dc input: 75 VA
Maximum Inrush Current	20A		20A (required for turn-on)	
Internal Current Capacity	5A at 5V dc 0.96A at 24V dc		12V dc input: 2.0A at 5V dc 0.46A at 24V dc	24V dc input: 3.6A at 5V dc 0.87A at 24V dc
			See P7 current capacity chart.	
Fuse Protection[1]	Fuse is soldered in place.			
24V dc User Power Current Capacity	200 mA		Not Applicable	
24V dc User Power Voltage Range	18-30V dc			
Ambient Operating Temp.	0°C to +60°C (+32°F to +140°F) Current capacity is derated 5% above +55°C.			
Isolation[2]	1800V ac RMS for 1 s		600V ac RMS for 1 s	
CPU Hold-up Time[3]	20 ms (full load) 3000 ms (no load)	5 ms (full load) 1500 ms (no load)	12V dc input: 1.37 ms at 0V dc (full load) 895 ms at 0V dc (no load) 10 ms at 9V dc (full load) continuous at 9V dc (no load)	24V dc input: 40 ms at 0V dc (full load) 1860 ms at 0V dc (no load) 790 ms at 11V dc (full load) continuous at 11V dc (no load)
Certification (when product is marked)	UL Listed Industrial Control Equipment for Class 1, Division 2, Groups A, B, C, D Hazardous Locations			
	UL Listed Industrial Control Equipment for Class 1, Division 2, Groups A, B, C, D Hazardous Locations			
	CE[4] European Union 89/336/EEC EMC Directive, compliant with: EN 50082-2 Industrial Immunity EN50081-2 Industrial Emissions European Union 73/23/EEC LVD Directive, compliant with: EN61131-2 Programmable Controllers			
	C-Tick Australian Radiocommunications Act, compliant with: AS/NZS 2064 Industrial Emissions			

(1) Power supply fuse is intended to guard against fire hazard due to short-circuit conditions. This fuse may not protect the supply from miswiring or excessive transient in the power line.

(2) Isolation is between input terminals and backplane.

(3) CPU hold-up time is for 0V unless specified. Hold-up time is dependent on power supply loading.

(4) See the Product Certification link at www.ab.com for Declarations of Conformity, Certificates, and other certification details.

(5) See 3-16 for information on power supply under voltage operation.