

Specifications

Following are specifications for the 1738-EP24DC power supply.

1738-EP24DC Power Supply	
I/O Module Capacity	5 to 17 I/O modules depending on each module's current rating.
Power Supply	In order to comply with CE Low Voltage Directives (LVD), you must use a Safety Extra Low Voltage (SELV) or a Protected Extra Low Voltage (PELV) power supply to power the adapter.
Inputs Voltage Rating	12V dc, 24V dc nominal 10-28.8V dc range
Operating Voltage	10-28.8V dc
Input Current, Maximum	6A for 10ms
Backplane Output Current	5V dc, 1.3A
Field Side Power Requirements, Maximum	24V dc (+20% = 28.8V dc) @ 400mA
Indicators	1 Green Field Power Status Indicator 1 Green SV System Power Indicator
Module Location	Between I/O modules in 1738 system Breaks field power bus
PointBus Output Current	1 A at 10-19.2V input; 1.3 A at 19.2-28.8V input
Input Overvoltage Protection	Reverse polarity protected
Interruption	Output voltage will stay within specifications when input drops out for 10ms at 10V with maximum load
General Specifications	
Power Consumption, Maximum	0.8W @ 28.8V dc
Power Dissipation, Maximum	3.0W @ 28.8V dc
Thermal Dissipation, Maximum	10.0 BTU/hr @ 28.8V dc
Isolation Voltage (continuous-voltage withstand rating)	50V rms Tested at 1250V ac rms for 60s
Field Power Bus Supply Voltage Voltage Range Supply Current	12V dc, 24V dc nominal 10-28.8V dc range 10 A maximum
Dimensions: Inches (Millimeters)	1.25H x 2.63W x 4.25D (31.75H x 66.80W x 107.95D)
Operating Temperature	IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -20 to 60°C (-4 to 140°F)
Storage Temperature	IEC 60068-2-1 (Test Ab, Unpackaged Non-operating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Non-operating Dry Heat), -40 to 85°C (-40 to 185°F)
Relative Humidity	IEC 60068-2-30 (Test Db, Unpackaged Non-operating Damp Heat): 5-95% non-condensing
Shock	IEC60068-2-27 (Test Ea, Unpackaged Shock): Operating 30g Non-operating 50g
Vibration	IEC60068-2-6 (Test Fc, Operating): 5g @ 10-500Hz
ESD Immunity	IEC 61000-4-2: 6kV contact discharges 8kV air discharges