

# Cisco Power Calculator -Power Results



*Disclaimer: The Cisco Power Calculator is intended to be an educational resource and a starting point in planning your power requirement; it is not a final recommendation from Cisco. This tool does not check for software compatibility. To determine the power requirements and software most appropriate for your company we suggest you work with a Cisco representative, Cisco channel partner or a solutions provider.*

## Product Family:Catalyst 9400

Power Consumption/Heat Dissipation Summary			
Slot	Line Card	Optional Uplink Module	Power Over Ethernet Capabilities
1	C9400-LC-48XS	--	--
2	C9400-LC-48UX	--	IEEE PoE
3	C9400-LC-48U	--	IEEE PoE
4	C9400-LC-48T	--	--
5	C9400X-SUP-2XL	--	--
6	C9400X-SUP-2XL	--	--
7	C9400-LC-48XS	--	--
8	C9400-LC-48UX	--	IEEE PoE
9	C9400-LC-48U	--	IEEE PoE
10	C9400-LC-48T	--	--
Power Supply Description	Redundant Mode	Number of Power Supplies	Percentage of Power Used
Cisco Catalyst 9400 Series 3200W AC Power Supply	Combined	2	50.03% 
Cisco Catalyst 9400 Series 2100W AC Power Supply	Combined	2	76.00% 

## Quick Facts

	<table border="1"><tr><td>Selected Supervisor Engine</td><td>C9400X-SUP-2XL</td></tr><tr><td>Selected Chassis</td><td>C9410R</td></tr><tr><td>Selected Voltage</td><td>200-240 Volts AC</td></tr><tr><td>Chassis Slots</td><td>10</td></tr><tr><td>Power Supply Options</td><td><a href="#">Cisco Catalyst 9400 Series 3200W AC Power Supply</a> <a href="#">Cisco Catalyst 9400 Series 2100W AC Power Supply</a></td></tr><tr><td>Line Card Slots</td><td>8</td></tr><tr><td>Rack Units</td><td>13</td></tr></table>	Selected Supervisor Engine	C9400X-SUP-2XL	Selected Chassis	C9410R	Selected Voltage	200-240 Volts AC	Chassis Slots	10	Power Supply Options	<a href="#">Cisco Catalyst 9400 Series 3200W AC Power Supply</a> <a href="#">Cisco Catalyst 9400 Series 2100W AC Power Supply</a>	Line Card Slots	8	Rack Units	13
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**WARNING :**

Combined mode does not provide power supply redundancy. In combined mode, if one of the power supplies fails, the system will power down modules until the system power allocation is under the power budget of the remaining power supply

Power Supply Details						
Power Supply Description	Redundant Mode	Number of Power Supplies	Percentage of Power Used	Total Output Power	Total Output Power Used	Total Power Remaining
Cisco Catalyst 9400 Series 3200W AC Power Supply	Combined	2	50.03%	6380.0	3191.9	3188.10
	N+1	3	--	--	--	--
	N+N	4	--	--	--	--
Cisco Catalyst 9400 Series 2100W AC Power Supply	Combined	2	76.00%	4200.0	3191.9	1008.10
	N+1	3	--	--	--	--
	N+N	4	--	--	--	--

Configuration Details				
Slot	Line Card	Typical Power Used (W)	Maximum Power (W)	Heat Dissipation at Max Power (BTU/Hr)
Chassis	C9410R	550.0	700.00	2653.78
1	C9400-LC-48XS	180.00	250.00	947.78
2	C9400-LC-48UX	186.00	240.00	909.87
3	C9400-LC-48U	62.00	65.00	246.42
4	C9400-LC-48T	62.00	65.00	246.42
5	C9400X-SUP-2XL	450.00	600.00	2274.67
6	C9400X-SUP-2XL	450.00	600.00	2274.67
7	C9400-LC-48XS	180.00	250.00	947.78
8	C9400-LC-48UX	186.00	240.00	909.87
9	C9400-LC-48U	62.00	65.00	246.42
10	C9400-LC-48T	62.00	65.00	246.42
	Sub Total	2430.00	3140.00	11904.09
PoE Device	Quantity	Typical Power Used (W)	Maximum Power (W)	Heat Dissipation at Max Power (BTU/Hr)
6945 - post CDP POE+ capable device(3.8W)	1	3.04	3.80	1.44
6961 - post CDP POE+ capable device(6.3W)	1	5.04	6.30	2.39
7941G - 0.15 amps (6.3W)	1	5.04	6.30	2.39
7911G - 0.119 amps (5W)	1	4.00	5.00	1.90
7941G-GE - 0.3071 amps (12.9W)	1	10.32	12.90	4.89
7906G - 0.119 amps (5W)	1	4.00	5.00	1.90
6921 - post CDP POE+ capable device(6.3W)	1	5.04	6.30	2.39
6941 - post CDP POE+ capable device(6.3W)	1	5.04	6.30	2.39
	Sub Total	41.52	51.90	19.68
		Typical Power Used (W)	Maximum Power (W)	Heat Dissipation at Max Power (BTU/Hr)
	Total	2471.52	3191.90	11923.77

**NOTE :**

Output Power and Heat Dissipation numbers computed by the Cisco Power Calculator are maximum values and can be used for facility power and cooling capacity planning. These figures are not indicative of the actual power draw or heat dissipation. Typical power draw is about 20% lower than the maximum value shown. Also note that most of power allocated for PoE devices is dissipated at the end points.