


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 3850

Power Consumption/Heat Dissipation Summary					
Selected Product	Percentage of PoE Power used	Total PoE OutputPower Available(W)	Total PoE OutputPower Used(W)	Total PoE OutputPower Remaining(W)	Total Heat Dissipation At Maximum Power(BTU/Hr)
WS-C3850-48U (1100W)	36.98% 	800.0	295.85	504.15	1532.08

Switch Details				
Selected Product	Typical Switch Power Consumption (with no PoE Devices)	Heat Dissipation At Typical(BTU/Hr)	Maximum Switch Power Consumption (with no PoE Devices)	Heat Dissipation At Maximum(BTU/Hr)
WS-C3850-48U (1100W)	121.5	518.20	300.0	1279.50

Quick Facts		
	Selected Product	WS-C3850-48U (1100W)
	Product Description	Stackable 48 10/100/1000 Ethernet UPOE ports, with 1100WAC power supply, 1 RU
	Rack Unit	1
	Available Ports	48

Note:

The Power Calculator attempts to provide the power budget rules employed in the latest software releases. It does not account for changes in the power management software made in previous versions. Please consult the power management section of the Release Notes for a history of changes to the software power management operation. Typical power draw is about 30% lower than the maximum value shown and is close to the actual power draw. Maximum values are based on theoretical calculations and should be used for facility power and cooling capacity planning. Also note that most of power allocated for PoE devices is dissipated at the end points and not at the switch.

PoE Devices Details			
PoE Devices	Quantity	Powered Device Output Power(W)	Heat Dissipation(BTU/Hr)
7906G - 0.119 amps (5W)	1	5.00	4.27
7911G - 0.119 amps (5W)	1	5.00	4.27
7941G - 0.15 amps (6.3W)	1	6.30	5.38
7941G-GE - 0.3071 amps (12.9W)	1	12.90	11.01
7961G - 0.15 amps (6.3W)	1	6.30	5.38
7961G-GE - 0.3071 amps (12.9W)	1	12.90	11.01
7971-G-GE- 0.3666 amps (15.4W)	1	15.40	13.15
CP-7902G (5.6W)	1	5.60	4.78
CP-7905G (5.6W)	1	5.60	4.78
CP-7910-SW (6.3W)	1	6.30	5.38
CP-7910G (6.3W)	1	6.30	5.38

CP-7912G (6.3W)	1	6.30	5.38
CP-7940G (6.3W)	1	6.30	5.38
CP-7942/62 (6.3W)	1	6.30	5.38
CP-7960G (6.3W)	1	6.30	5.38
CP-7965/45 (12W)	1	12.00	10.24
CP-7970G (10.25W)	1	10.25	8.75
CP-7971G (14.9W)	1	14.90	12.72
CP-7975 (12W)	1	12.00	10.24
Cisco 3700 AP (16.1W)	1	16.10	13.75
Cisco 3700 AP + Module (19.6W)	1	19.60	16.73
IEEE 802.3af Device - Class 0 (15.4W)	1	15.40	13.15
IEEE 802.3af Device - Class 1 (4W)	1	4.00	3.41
IEEE 802.3af Device - Class 2 (7W)	1	7.00	5.98
IEEE 802.3af Device - Class 3 (15.4W)	1	15.40	13.15
IEEE 802.3af Device - Class 4 (15.4W)	1	15.40	13.15
IEEE 802.3at Device - Class 3 (30W)	1	30.00	25.61
WS-C2960PD-8TT-L(11W)	1	11.00	9.39
PoE Devices	Quantity	Total Output Power	Heat Dissipation(BTU/Hr)
Total	28	295.85	252.58