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 6500

Power Consumption/Heat Dissipation Summary			
Slot	Line Card	Optional DFC	Power Over Ethernet Capabilities
1	WS-X6908-10G-2TXL	--	--
2	WS-X6908-10G-2TXL	--	--
3	WS-X6908-10G-2TXL	--	--
4	WS-X6908-10G-2TXL	--	--
5	WS-X6908-10G-2TXL	--	--
6	WS-X6908-10G-2TXL	--	--
7	VS-S2T-10G-XL	--	--
8	-- Reserved Power --	--	--
9	WS-X6908-10G-2TXL	--	--
10	WS-X6908-10G-2TXL	--	--
11	WS-X6908-10G-2TXL	--	--
12	WS-X6908-10G-2TXL	--	--
13	WS-X6908-10G-2TXL	--	--

Minimum Power Supply		Percentage Of Power Used	
Single/Redundant WS-CAC-8700W-E with a Triple 220V input		91.48 % 	
First Alternative Power Supply		Percentage of Power used	
Combined WS-CAC-8700W-E with a Dual 220V input		83.28 % 	
Total Output Current(@42V)	**Total Output Power**	**Total Typical Output Power**	**Total Heat Dissipation**
184.57 Amps	**7751.94 Watts**	**6201.55 Watts**	**29333.97 BTU/Hr**

Quick Facts

Selected Chassis	WS-C6513-E
Selected Supervisor Engine	VS-S2T-10G-XL
Selected Voltage	200-240 Volts AC
Selected FanTray	WS-C6513-E-FAN
Chassis Slots	13
Power Supply Options	Single/Redundant WS-CAC-8700W-E with a Triple 220V input
	Combined WS-CAC-8700W-E with a Dual 220V input
	Combined WS-CAC-6000W with Dual 220V inputs
	Combined WS-CAC-8700W-E with a Triple 220V input
Line Card Slots	12
Rack Units	19

Power Supply Details				
Minimum Power Supply	Percentage of Power used	Total Output Current(@42V) for This PSU(A)	Total Output Current(@42V) Used (A)	Total Output Current(@42V) Remaining (A)
Single/Redundant WS-CAC-8700W-E with a Triple 220V input	**91.48 %** 	**201.76**	**184.57**	**17.19**
Other Power Supply Options	Percentage of Power used	Total Output Current(@42V) for This PSU(A)	Total Output Current(@42V) Used (A)	Total Output Current(@42V) Remaining (A)
Combined WS-CAC-8700W-E with a Dual 220V input	83.28 % 	221.63	184.57	37.06
Combined WS-CAC-6000W with Dual 220V inputs	80.59 % 	229.03	184.57	44.46
Combined WS-CAC-8700W-E with a Triple 220V input	54.78 % 	336.94	184.57	152.37

NOTE :

Chassis reserves power for Redundant Supervisor Engine if redundant Supervisor Engine slot is empty.

Configuration Details					
Slot	Line Card	Output Current(@42V) (A)	Output Power (W)	Typical Power Used (W)	Heat Dissipation (BTU/Hr)
FAN1	WS-C6513-E-FAN	5.15	216.30	173.04	869.02
1	WS-X6908-10G-2TXL	14.36	603.12	482.50	2423.12
2	WS-X6908-10G-2TXL	14.36	603.12	482.50	2423.12
3	WS-X6908-10G-2TXL	14.36	603.12	482.50	2423.12
4	WS-X6908-10G-2TXL	14.36	603.12	482.50	2423.12
5	WS-X6908-10G-2TXL	14.36	603.12	482.50	2423.12
6	WS-X6908-10G-2TXL	14.36	603.12	482.50	2423.12
7	VS-S2T-10G-XL	10.73	450.66	360.53	1810.59
8	-- Reserved Power --	10.73	450.66	360.53	--
9	WS-X6908-10G-2TXL	14.36	603.12	482.50	2423.12
10	WS-X6908-10G-2TXL	14.36	603.12	482.50	2423.12
11	WS-X6908-10G-2TXL	14.36	603.12	482.50	2423.12
12	WS-X6908-10G-2TXL	14.36	603.12	482.50	2423.12
13	WS-X6908-10G-2TXL	14.36	603.12	482.50	2423.12
		Output Current(@42V) (A)	Output Power (W)	Typical Power Used (W)	Heat Dissipation (BTU/Hr)
	Total	**184.57**	**7751.94**	**6201.55**	**29333.97**

PLEASE REFER TO THE NOTES PAGE FOR IMPORTANT INFORMATION :

NOTE :

- The Catalyst 6500 backplane power connectors for the linecards, fan trays and Supervisors operate at 42V. The power supplies take the power from the source and convert it into a 42V feed for these power connectors.
- Output Power is the amount of power delivered from the Power Supply to the Catalyst 6500. To figure Input Power, divide output power by .85 (typical efficiency of the power supplies).
- 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 figure 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.
- Output from the Cisco Power Calculator may not match the output from "show power" or certain "show energywise" commands due to the way the system dynamically allocates power for PoE device bootup. This dynamically allocated power will not affect the overall selection of the proper power supply by the Cisco Power Calculator.
- 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.