

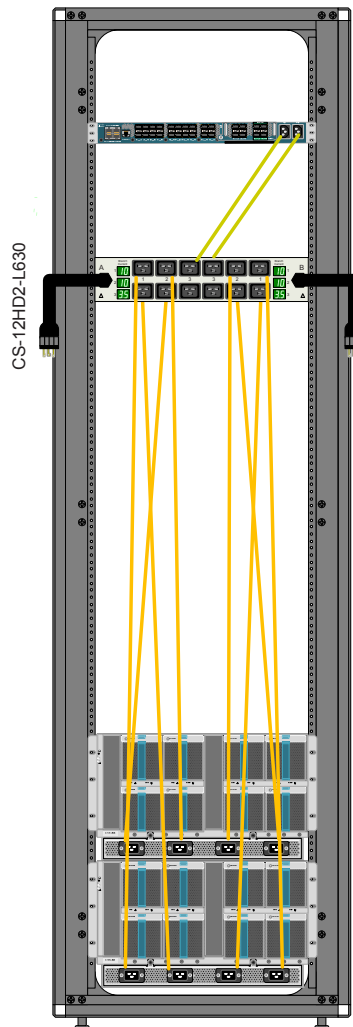
## Sentry Smart CDU's™ Power Cisco's Unified Computing System

Server Technology's Sentry Smart CDU Solution to Power a Cabinet with Two Cisco UCS 5108 Series Blade Server Chassis and One Cisco UCS 6120XP 20-Port Fabric Interconnects

208V 30A with two Cisco UCS 5108 Blade Server Chassis

Notes:

1. UCS 5108 Blade Server Chassis drawing 2250W times 2 chassis.
2. UCS 6120XP drawing 358W times 1 units.
3. 30A 208V CDU's with 3 branches on 20A fuses. Continuous available power of 5.0kW.



The Cisco Unified Computing System is a next-generation data center platform that unites computing, network, storage access, and virtualization into a cohesive system designed to reduce total cost of ownership (TCO) and increase business agility. This application note will illustrate how to power and provide redundancy for two Cisco UCS 5108 Series Blade Server Chassis and one Cisco UCS 6120XP 20-Port Fabric Interconnects utilizing Server Technology's Smart CS-12HD2-L630 Cabinet Power Distribution Unit (CDU) with (12) C19 outlets per CDU with a power input feed of 208 V 30 A power.

Enclosed are the loaded power draws for each device shown in the cabinet.

Cisco Devices	qty	Cisco Power Spec.	Derating	Expected Watts Each	C13	C19	Total Watts
UCS 6120XP	1	550 W	65%	358	2	0	358
UCS 5108	2	5000 W	45%	2250	0	4	4500
<b>Total</b>					<b>2</b>	<b>8</b>	<b>4858</b>

Total kW delivered for one 208 V 30 A in-feed source is 6.24 kW de-rated to 5 kW.

Power Requirements for Cisco Unified Computing System with Two 5108 Blade Server Chassis:

-Total Power Usage: 4.9 kW

-Input power feeds required: two 208 V, 30 A, NEMA L6-30P plugs

-Number of Outlets: (12) C19 per cabinet

-Other requirements: Intelligent monitoring, local current indicators to help in load balancing

If one of the input power feeds fails the other CDU must be capable of carrying the whole load. The CS-12HD provides plenty of power should this occur.

## Key Benefits:

> Sentry Smart 30 A CDU's reduce the number of CDU's needed to deliver the power required by this cabinet configuration. This in turn reduces the number of power drops required for each cabinet.

> Fewer power cords means lower infrastructure costs and improved airflow in a raised floor data center environment resulting in improved cooling in the cabinet.

> Sentry Smart CDU's allow administrators to view the current load and environmental conditions remotely.

> SNMP traps and email alerts ensure notification if a problem has occurred along with logging of all actions performed by user.

> Local LED's Per Branch Circuit - Large, easy-to-read displays let you determine if the load is balanced and provides visual indication that power is supplied to the CDU.

> Environmental measurements - Qty (2) temperature and humidity measurements are provided per pair of CDU's.

> Local and remote notification if a branch circuit is lost.

> Master and Link unit configuration (CS/CL) allows two power in-feeds and all environmental information to be monitored via single IP address per cabinet.



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