

Corning Six-Module DC Power Supply Unit (PSU-C-06)



The Corning PSU-C-06 is a high-efficiency, carrier-grade communication power supply unit engineered for mission-critical network infrastructure deployments. It accommodates up to six hot-swappable modules, each delivering dual 56 VDC outputs rated at 100 W per channel, ensuring scalable and redundant power delivery. Built for operational reliability and simplified integration, the unit features intelligent forced-air cooling, real-time system diagnostics, and comprehensive protection mechanisms including overvoltage, overcurrent, thermal shutdown, and short-circuit safeguards.

Features	Benefits
Wide Input Range & High Output Power	Supports a universal input voltage range of 85-265 VAC, delivering up to 12 independent 56 VDC outputs, each rated at 100 W (1.75 amp). The system achieves a maximum total output power of 1,200 W, utilizing forced-air cooling to maintain thermal performance under full load.
Modular Hot-Swappable Architecture	The unit supports up to six hot-swappable power modules, with a minimum interval of three seconds between insertions or removals. Each module delivers two independent DC outputs, enabling flexible and scalable deployment.
High Power Factor	Achieves a power factor of $PF \geq 0.95$ at 220 VAC, improving energy efficiency and reducing reactive power in the system.
Exceptional Conversion Efficiency	Optimized for performance, the power supply offers a typical conversion efficiency of up to 90% at 220 VAC, reducing energy loss and operating costs.
Intelligent Network Management Interface	Equipped with an Ethernet port, the unit enables remote access via Web-GUI and Local CLI, and is fully compatible with NM server integration. It supports industry-standard protocols, including SNMP, for real-time monitoring and management.
Comprehensive Protection Mechanisms	Built-in protections include overvoltage, short-circuit, overcurrent, and overtemperature safeguards. Fault conditions are reported via software and visual LED indicators for fast diagnostics and maintenance.
Integral Fan Cooling	Engineered for reliability and safety, the PSU-C-06 is designed to meet international safety certification standards, offering long-term operational stability and comprehensive fault tolerance in demanding environments.

Specifications

AC Input	
Voltage Range	85 to 265 VAC; 47-63 Hz via IEC-socket rated voltage (for safety approval): 100–240 VAC, 50–60 Hz
Current	Maximum input current at 85 VAC is 16.8 amp for six PSMs
Power Factor	> 0.925 at maximum load
Efficiency	For 100 VAC input voltage: > 86% minimum at 25°C and 85% minimum at 55°C for 100 VAC input voltage: > 88% minimum at 25°C and 86% minimum at 55°C

DC Output per Port	
Voltage	56 V constant output power
Maximum Current	1.7 amp
Power	100 W

Power	
Maximum System Output Power	1,200 W @ 56 VDC
Polarity	Isolated; 56 V
Individual Module Power	200 W
Noise	Ripple < 100 Hz at max load @ 20 MHz BW
Monitoring	Status LED per PSM and per output
Identified Faults	Low-input voltage Fan-failure detection Output voltage out of range Internal fault

Protection	
Output Current Limit	Output current limit > 94 W and < 100 W Auto-recovery when current is back within range
Output Inrush	Current limiter supports startup with 500uF ± 20% load capacitance and 200 mA load
Overvoltage	Limit of 61 V ± 4%.
Input Protection	Auto shutdown and auto restart when correct voltage is restored
Input Fuses	Short circuit on main lines is protected by replaceable fuse

Temperature	
Operating Temperature	-20°C to +55°C (-4°F to 131°F)
Storage Temperature	-20°C to 85°C (-4°F to 185°F)
Operating Humidity	Non-condensing relative humidity range: 5% to 95%
MTBF	262,800 hours. Lifespan ≥ 10 years (at an ambient temperature of 25°C)

Specifications (continued)

Physical	
Enclosure Dimension (H x W x D) Power Module Dimension (H x W x D)	1.75 x 17.40 x 12.67 in (44.5 x 442 x 322 mm) 1.67 x 2.6 x 8.3 in (42 x 65 x 210 mm)
Weight	Enclosure without PSU-M-200W-AC modules: 7.4 lb (3.35 kg) Per PSM-I module: 1.3 lb (0.558 kg)
Connectors	Input connector: TU-320-B-MB TECX or equivalent Output connector: PCIC16W7M400A1/AA POSITRONIC part number or equivalent
Mounting	19-in rack-mount (1U)

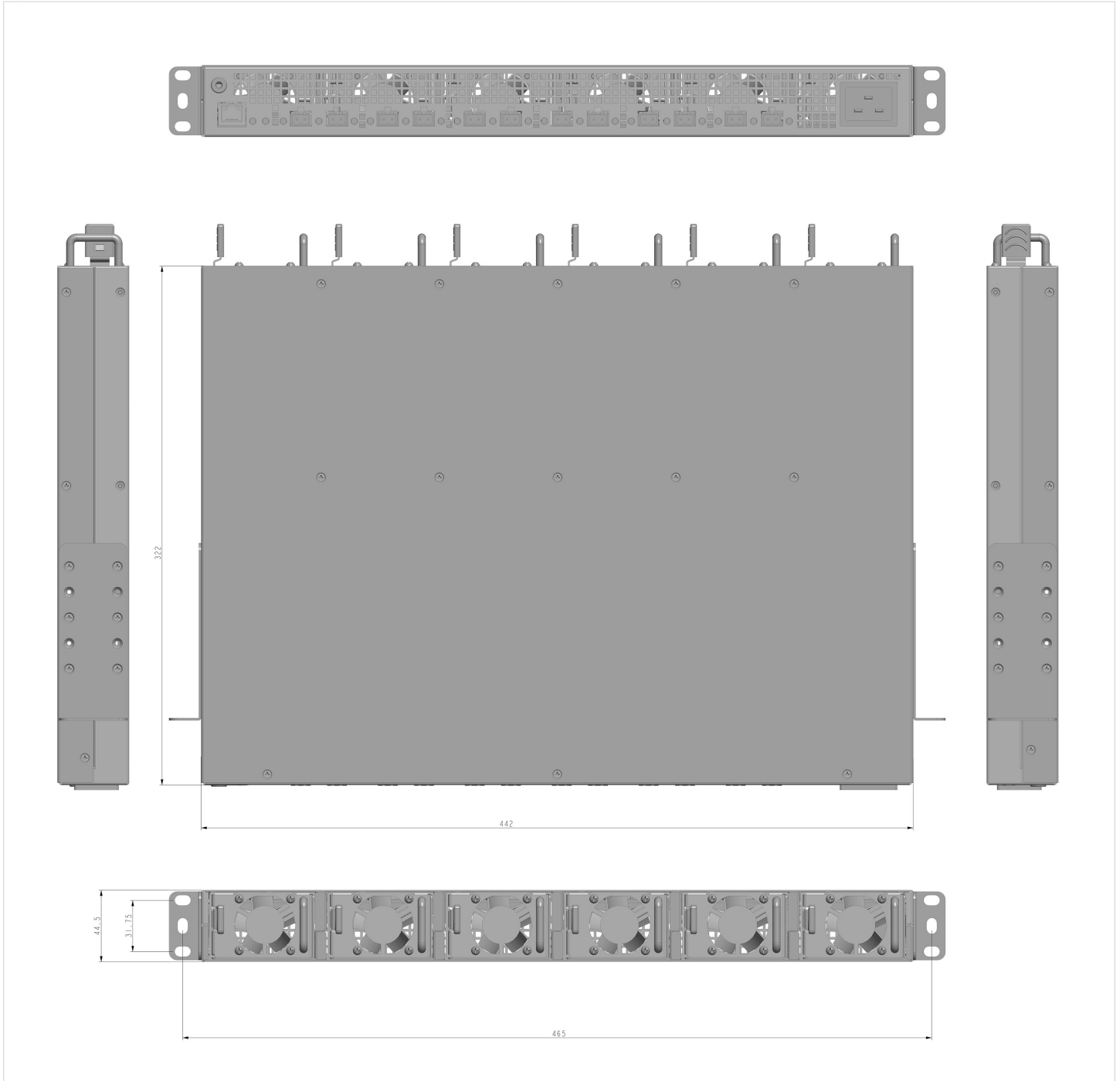
Safety Compliance	
Safety Certifications	Design complies with IEC/EN/UL 62368-1, GB 17625.1-2022, GB
Regulatory Compliance	UK CA CE

Ordering Information

Part Number	Description
PSU-M-200W-AC	90-264 V, 47-63 Hz AC input module, 200 W max (up to 6 modules per PSU-C-06)
PSU-C-06	Chassis for up to 12 outputs of 56 VDC, 100 W, input is 90~264 VAC, supports up to 6 power modules, 1U chassis

Mechanical Dimensions

Box volume: 442 x 322 x 4.5 mm (length x width x height, tolerance 1 mm)



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