

# Corning Optical Network Evolution (ONE™) Solutions Six-Module DC Power Supply Unit (PSU6)



## features and benefits |

<b>Compact and scalable</b>	19-in, 1U rack-mount shelf supports up to six hot-swappable power modules
<b>Support for third-party devices</b>	Supports powering of specified network interface devices (NIDs)
<b>Universal AC input</b>	85 to 265 VAC single input
<b>DC output capacity</b>	12 outputs of 57 VDC, 1200 W total max output capacity (100 W per output)
<b>Protection</b>	High input voltage fuse protection Low input voltage disconnect Overcurrent protection – continuous, hiccup mode, auto recovery Reverse polarity protection
<b>Mixed mode support</b>	12 output inrush current circuits for support for different types of Corning optical network evolution (ONE) solutions remote units, as well as specified NIDs (see supported NIDs in specifications)
<b>Integral fan cooling</b>	Each power supply module includes an integrated fan module Fan activation in extreme temperatures only

PSU6 is a compact, scalable DC enclosed power supply used for feeding Corning® optical network evolution (ONE™) solutions remote units as well specified network interface devices (NIDs). PSU6 provides up to 12 outputs of 57 VDC, at 100 W per output for a total power of 1200 W.

PSU6 supports up to six hot-swappable modules, where each module provides two DC outputs.



PSU6 | Figure 1

## 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	57 V constant output power
Maximum Current	1.7 amp
Power	100 W

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## specifications | (continued)

### Power

<b>Maximum System Output Power</b>	1200 W @ 57 VDC
<b>Polarity</b>	Isolated; 57 V
<b>Individual Module Power</b>	200 W
<b>Noise</b>	Ripple < 100 Hz at max load @ 20 MHz BW
<b>Monitoring</b>	Status LED per PSM and per output
<b>Identified Faults</b>	Low input voltage Fan failure detection Output voltage out of range Internal fault

### Protection

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

### Temperature

<b>Operating Temperature</b>	0 to +55°C (32 to +131°F)
<b>Storage Temperature</b>	-20° to 85°C (-4° to 185°F)
<b>Operating Humidity</b>	Non-condensing relative humidity range: 5% to 95%
<b>MTBF</b>	262,800 hours

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## specifications | (continued)

### Physical

<b>Dimension (H x W x D) [enclosure]</b>	1.73 x 17.51 x 13.74 in (44 x 445 x 349 mm)
<b>Weight</b>	Enclosure without PSM-I modules: 6.22 lb (2.825 kg) Per PSM-I module: 0.8 lb (0.36 kg)
<b>Connectors</b>	Input connector: TU-320-B-MB TECX or equivalent Output connector: PCIC16W7M400A1/AA POSITRONIC part number or equivalent
<b>Mounting</b>	19-in rack-mount (1U) Wall-mount

### Safety Compliance

UL 60950, Third Edition  
UL to CAN/CSA 22.2 No.60950, Third Edition  
CB to IEC 60950 with all country deviations  
CE Marking

## ordering information |

Part Number	Product Description
PSM-I	Power Supply Module (up to six modules per PSU6)
PSU6-1U	Power Supply Unit with no PSM-I
PSU6-1PS	Power Supply Unit with one PSM-I
PSU6-2PS	Power Supply Unit with two PSM-I modules
PSU6-3PS	Power Supply Unit with three PSM-I modules
PSU6-4PS	Power Supply Unit with four PSM-I modules
PSU6-5PS	Power Supply Unit with five PSM-I modules
PSU6-6PS	Power Supply Unit with six PSM-I modules

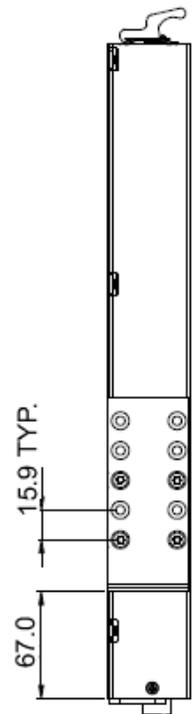
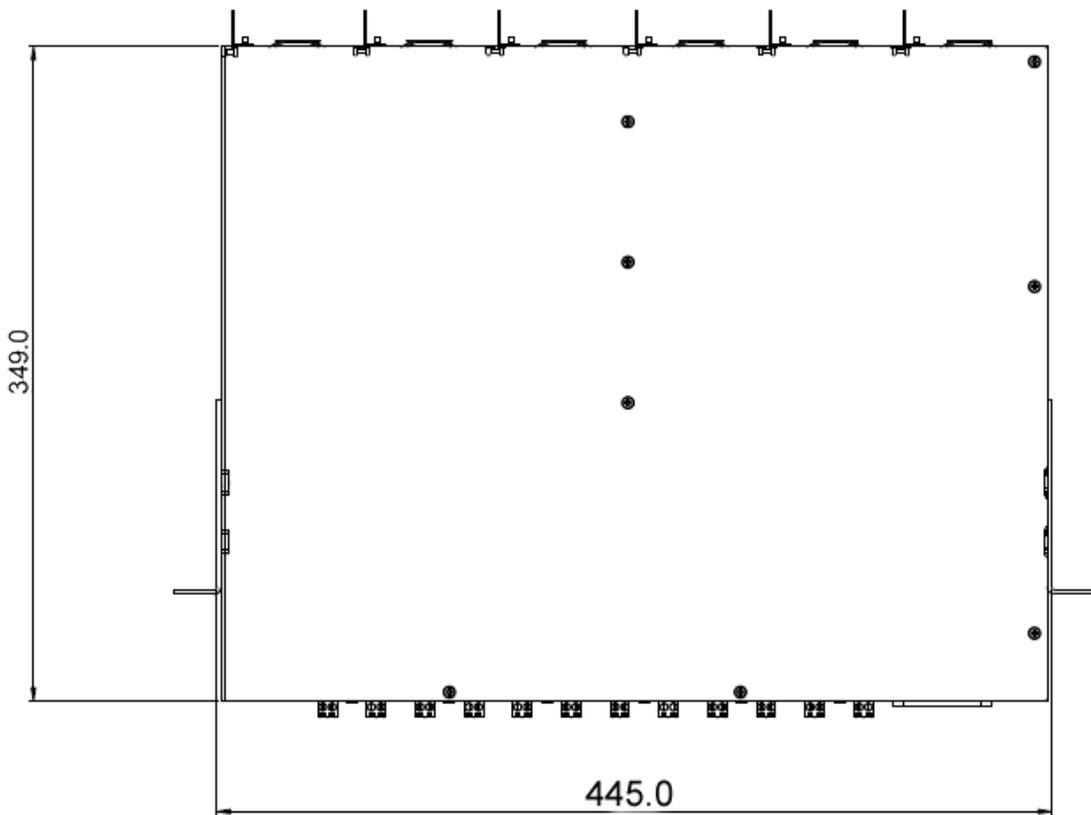
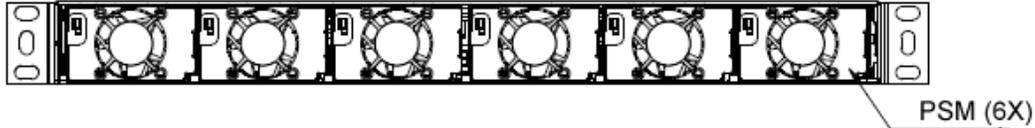
### Supported NIDs |

Vendor	Part Number
Tellabs™	Tellabs® 709GP ONT
Zhone®	ZNID-GPON-2624P-00
Antaira®	LMP-0601G-SFP-T

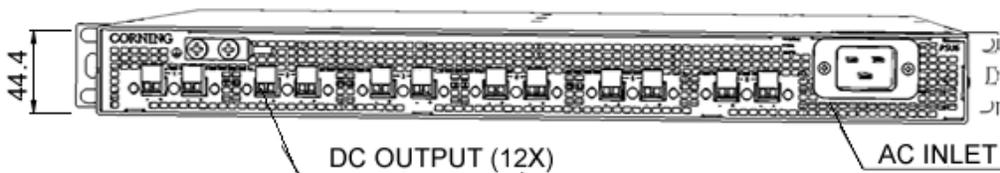
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## mechanical dimensions |



TOLERANCES UNLESS NOTED	
LIMITS (mm)	ALLOWED TOL.(mm)
0-30	±0.25
30-120	±0.45
...	...



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