

Features	Benefits
Application	LAN switches or GPON ONTs Distributed Antenna Systems LED Lighting Security/Access Control
Step-Down Converter	Single input from a Class-2/LPS power source ranging from 36 VDC to 57 VDC Output voltage of 24 VDC (+/- 5%) Conversion efficiency better than 96%

Description

The Corning® Everon™ Power Source Unit (PSU) provides National Electricity Code® (NEC®) Class-2 outputs that allow various output power characteristics (greater or reduced) achieved via connectivity to an external (and thus, modular) aggregator and step-down converter units.

- **Aggregators** allow feeding loads with power higher than NEC Class-2 95 W. These aggregators are available as 2- and 8-port models.

For example: providing 150 W requires connection to two ports; providing 450 W requires connection to five ports of an 8-port model; providing 300 W may be based on a single 8-port model or by paralleling the outputs of two 2-port models, etc.

Note: the 8-port model provides up to 700 W. The 2-port model provides up to 170 W of output power.

- **Step-Down Converters** allow voltage reduction from 56 V to 24 V, supporting up to 90 W loads.

Note: It is recommended that both the aggregator and the step-down converter be located near the load (powered device).

Corning's Everon PSU provides the following main enhancements:

- **High density of output ports** per unit
- **User-defined output power characteristics** via aggregators and step-down converter units
- Supports **high-voltage DC source input**
- Option for **remote management** via Ethernet or RS-485, based on Modbus protocol (with adjusted specific format on top)
- Status LEDs and **dry contact alarm**






Interface Specifications



Single Input



Two Outputs

Feature	Description	Purpose
Output ports	<p>Total of 90 W output power shared between the two outputs</p> <p>Power output is limited based upon the input LPS feeding < 95 W limitation.</p> <p>If feeding from Class-1 power source, the output power may exceed 100 W.</p> <p>Dual 12 AWG to 20 AWG output connector</p>	<p>Converted output voltage port</p> 
Output panel indication	<p>Visual</p> <p>Green LED per port</p> <p>Note: Both output LEDs are always indicating the same, as they are using the same connection</p>	<p>Green LED per each output, indicating correct voltage at output</p> 
Input ports	<p>Class-2 power input</p> <p>12 AWG to 20 AWG connector</p>	<p>Class-2 input</p> 

Important safety-related notes to read prior to installation

- 1 All terminal block mating connectors should not be removed – even if they are not being used
- 2 The system wiring should not be routed outside the building
- 3 The converter is provided as a separate unit, to be ordered individually

Environmental Specifications

Feature	Description
Working temperature	-30°C to +65°C (86°F to 149°F) without output power derating
Working humidity	0% to 90% RH non-condensing
Storage temperature	-40°C to +70°C (-40°F to +158°F)
Storage humidity	10% to 95% RH
Vibration	10 Hz to 500 Hz, 2G 10 min/cycle, 60 min each along X, Y, Z axes

Standards and Certifications

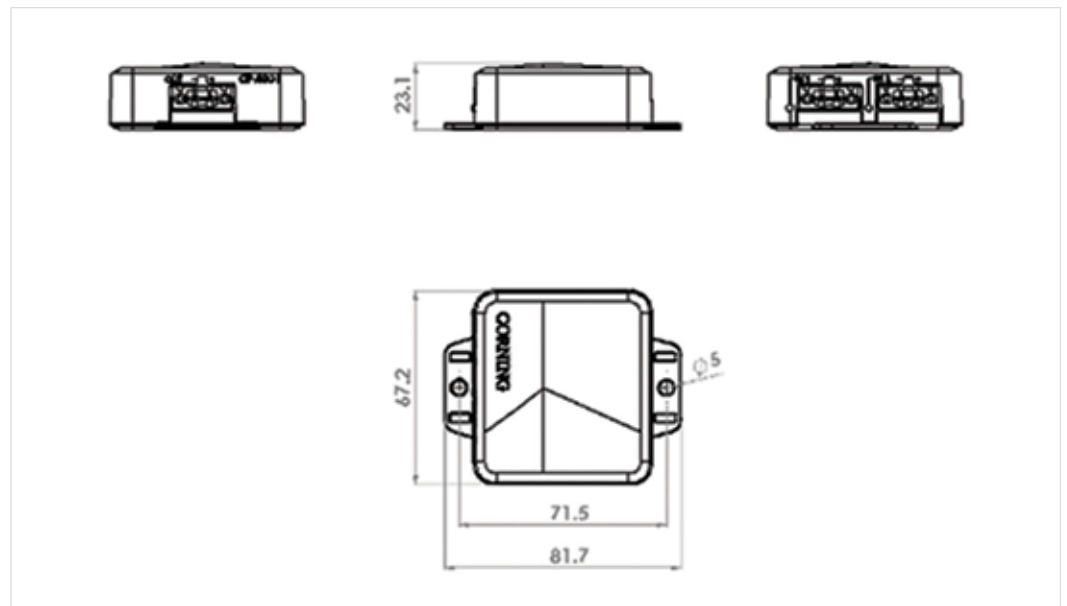
Feature	Description
EMC	FCC CFR 47 Part 15 Subpart B, EN 55035:2017, EN 55032:2015CISPR 32, AS/NZS CISPR 32: 2012EN 61000-3-2: 2014, EN 61000-3-3:2013, EN 61000-4-8: 2010
Safety compliance	UL/EN/IEC 62368-1 Edition 2

Mounting Options

- Wall mountable, using 2 screws
- Tie wrap

Physical Specifications

Dimensions



Feature	Description
Dimensions (H x W x D)	25 x 68 x 85 mm (1.0 x 2.7 x 3.3 in)
Weight	230 g (0.5 lb)

Installation

See Corning® Everon™ PSU Quick Installation Guide for more details

Ordering Information

Step-Down Converter

Part Number	Description	Image
CIP-VC-56T24	Step-Down Converter	

Note: These products do not include an accessories kit.



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