

# Everon® CIP-01-56V Corning Intelligent Power (CIP)



The Everon® CIP-01-56V power supply unit provides a National Electrical Code® (NEC®) Class-2 LPS 56V output that allows various output power characteristics achieved via connectivity to an external (and thus, modular) aggregator and step-down converter units.

- **Step-Down Converters** allow voltage reduction from 56 V to 24 V, supporting up to 95 W loads.
- **Aggregators** allow power aggregation of two or eight CIP-01-56V units to provide up to 720 W of power.

Corning’s Everon single channel PSU provides the following main enhancements:

- Status LEDs

Features	Benefits	
Application	LAN switches or GPON ONTs Distributed Antenna Systems	LED Lighting Security/Access Control
Common Power Source Features	AC input range: 100 VAC to 240 VAC/2A max <ul style="list-style-type: none"> <li>• Passive cooling</li> <li>• Output port option: Single-port model with paralleling option</li> <li>• Output power of up to 95 W</li> </ul>	High efficiency up to 92% <ul style="list-style-type: none"> <li>• Built-in monitoring and control:</li> <li>• Overtemperature, overload</li> <li>• Protections: short circuit, overload, overvoltage, and overtemperature</li> <li>• Outputs protection auto-recovery</li> </ul>

## System Architecture

### Important safety-related notes to read prior to installation

- The system wiring should not be routed outside the building.
- The PSU Class-2 provides a maximum 95 W output, allowing cables to be routed without conduits.
- The output of the aggregator is a Class-1 circuit (providing more than 95 W). The aggregator should be located near the load to avoid conduit installation.
- The outputs of the aggregators should be connected only to safety-approved devices.
- The outputs of multiple aggregators may be wired parallel to each other to achieve higher power as needed.
- The aggregator and converter are provided as separate units, and to be ordered individually.

# Specifications

Environmental Specifications	
Working temperature	-20°C to +60°C and -4°F to +140°F
Working humidity	0% to 90% RH non-condensing
Storage temperature	-20°C to +85°C (-4°F to +185°F)
Storage humidity	10% to 95% RH
Vibration	10 Hz to 500 Hz, 2G 10 min/cycle, 40 min each along X, Y, Z axes

Physical Specifications	
Dimensions	127 x 105 x 50 mm
Weight	0.63 kg

Power Specifications	
Input power source	Universal AC 100-240 VAC
Max power consumption	1 Port: Max 130 W
Max input current	1.5A with 100 VAC
Output port power	56 VDC Maximum Output Power 95 W ± 5%

Standards and Certifications	
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 as a LPS (Limited Power Source)

## Ordering Information

Description	Part Number
Class-2 power supply, 56 VDC, 1 channel, mini form factor	CIP-01-56V
Eight Class-2 inputs per aggregator (supports 24 VDC to 56 VDC Class-2 inputs x 2) Cable-side Dinkle connectors are attached to the unit	CIP-AGG-2 2-Port Aggregator
Eight Class-2 inputs per aggregator (supports 24 VDC to 56 VDC Class-2 inputs x 8) Cable-side Dinkle connectors are attached to the unit	CIP-AGG-8 8-Port Aggregator
Class-2 56 VDC to 24 VDC step-down converter (up to 90 W input distributed over two 24 V outputs) Multiple CIP-VC-56T24 converter outputs that are powered from 56 VDC Corning® Everon® PSU ports may be aggregated with the 2- or 8-port aggregator to feed big loads	CIP-VC-56T24 Step-Down Converter



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