

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.
 - Please see **step-down converter and aggregator data sheets** for more information.

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

- Status LEDs

Features	Benefits	
Application	SD-LAN, Software Defined Access Nodes (SDANs), Distributed Antenna Systems/Small Cell Radio Nodes, and other Low Voltage Network devices that accept 56 VDC power.	WLAN APs, Security Cameras, Access Control, Building Automation, and other Low Voltage powered devices.
Common Power Source Features	AC input range: 100 VAC to 240 VAC/2A max • Passive cooling • Output port option: Single-port model with paralleling option • Output power of up to 95 W	High efficiency up to 92% • Built-in monitoring and control: • Overtemperature, overload • Protections: short circuit, overload, overvoltage, and overtemperature • Outputs protection auto-recovery
Mounting Options	Wall/Surface mount brackets (included) Optional - Din rail mounting bracket (1LAN-FMC-DINBRACKET) Optional - Low Profile bracket for mounting flat inside of enclosure (1LAN-D600-FMC-KIT)	

System Architecture

Important safety-related notes to read prior to installation

- The system must be installed and used in accordance with all applicable local, state, and national electric codes.
- Two CIP-01-56V units can be paralleled by using a Cat.5/6 RJ45 jumper from the output sync port of first CIP-01 into the input sync port of the second CIP-01.
- Paralleled CIPs will be load balanced and can then be used to feed a 2x1 AGG and/or 8x1 AGG.
- Connect the **Sync** output of the first CIP to the **Sync** input of the next CIP, and so on and so forth for each unit to accommodate aggregation.

Specifications

Environmental Specifications	
Working temperature	-20°C to +60°C
Working humidity	0% to 90% RH non-condensing
Storage temperature	-20°C to +85°C
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 55032:2015, CISPR 32, AS/NZS CISPR 32:2012, EN 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)
Regulatory Compliance	CE / UKCA

Ordering Information

Description	Part Number
Class-2 power supply, 56 VDC, 1 channel, mini form factor	CIP-01-56V
Mounting kit for 1LAN-FMC-10G into 1LAN-D600-ENC-3 outdoor enclosure	1LAN-D600-FMC-KIT
Din Rail Accessory Bracket for FMC	1LAN-FMC-DINBRACKET
EN 50022 – 35 × 7.5 (1 meter) (DIN RAIL)	1LAN-SDAN-DIN1160
19-in rack mount shelf with 2U blank plates	CIP-19SHELF-2U
L Bracket w/ DIN rail for CIP shelf	CIP-19SHELF-DIN
Two 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)	CIP-VC-56T24 Step-Down Converter
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	

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