Everon™ 2- and 8-Port Aggregators

CORNING

Features	Benefits
Application	LAN switches or GPON ONTs Distributed Antenna Systems LED Lighting Security/Access Control
Step-Down Converter	2 Ports: 2 inputs from a Class-2/LPS power source ranging from 20 VDC to 57 VDC Combined output for higher power or for redundancy applications 8 Ports: 8 inputs from a Class-2/LPS power source ranging from 20 VDC to 57 VDC Combined output for higher power or for redundancy applications

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).

2-Port Aggregator

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**

8-Port Aggregator

Interface Specifications

2-Port Aggregator

Two Class-2 Inputs

Single Class-1 Output

Note: This model includes two screws in the DC connectors to allow an optional air mounting (hanging on-cable with optional/dedicated cable plugs); Alternatively, there are two holes for wall mounting.

8-Port Aggregator

Eight Class-2 Inputs

Single Class-1 Output

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

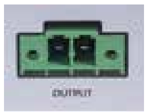
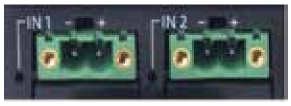
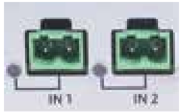
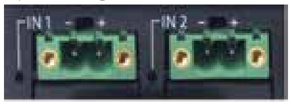
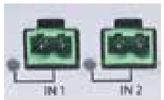
2 The system wiring should not be routed outside the building

3 The 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.

4 The outputs of the aggregators should be connected only to safety-approved devices

5 The outputs of multiple aggregators may be wired parallel to each other to achieve higher power as needed, but all Class-2 input ports should be from the same Everon™ PSU

6 For redundant applications, only the same number of Class-2 ports from multiple Everon PSUs may be aggregated together

Feature	Description	Purpose
Output ports	Class-1 Outputs 2-Port version: Single 12 AWG to 20 AWG output connector Total of up to 170 W of output power 8-Port version: Single 8 AWG to 20 AWG output connector Total of up to 700 W of output power	2-port aggregated output  8-port aggregated output 
Input ports	Class-2 Inputs 12 AWG to 20 AWG input connector Input voltage range: 20 V to 57 V Maximum power: < 95 W per input	Class-2 inputs  
Input port indications	Green LED per input port, indicating detected input voltage > 20 VDC (i.e., indicating good connection)	Class-2 inputs with voltage monitoring, indicating existence of input voltage  

Environmental Specifications

Feature	Description
Working temperature	-40°C to +65°C (-40°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, 40 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

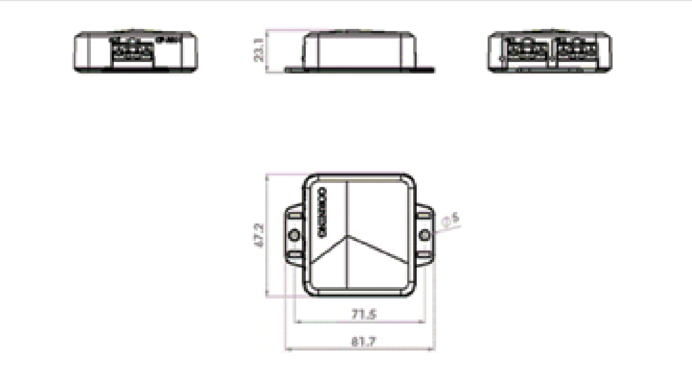
2-Port Aggregator

- Wall mountable, using 2 screws
- Tie wrap

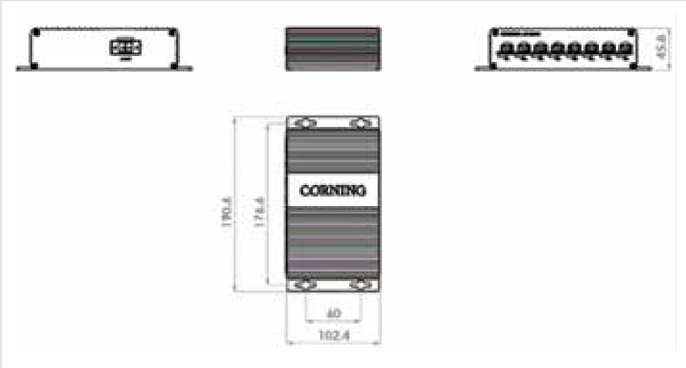
8-Port Aggregator

- Wall mountable, using 4 screws

Environmental Specifications



2-Port Aggregator



8-Port Aggregator

Feature	Description
2-Port Aggregator	
Dimensions (H x W x D)	25 x 68 x 85 mm (1.0 x 2.7 x 3.3 in)
Weight	200 g (0.4 lbs)
8-Port Aggregator	
Dimensions (H x W x D)	25 x 68 x 85 mm (1.0 x 2.7 x 3.3 in)
Weight	0.5 kg (1.1 lbs)

Feature	Description	
CIP-AGG-2	Supports 2x (20 V to 57 V) Class-2 power input signal aggregation Input power signals to be provided only by Corning® Everon™ PSU power supply outputs	
Input ports	Supports 8x (20 V to 57 V) Class-2 power input signal aggregation Input power signals to be provided only by Corning Everon PSU power supply outputs	

Note: These products do not include an accessories kit.

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