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Aggregator

Class 2 Circuit Aggregation Device

- Aggregates up to eight (8) NEC Class 2 inputs into a single, 48VDC bulk output
- When deployed in conjunction with Alpha® eLimiter™ product family, meets the requirements for Class 2 circuits, even for remote devices that consume more than 100W of power
- Enables remote powering of iDAS, indoor small cells and WiFi networks
- Dramatically reduces CAPEX by eliminating the need for conduit and certified electrical technicians
- Results in lower OPEX by eliminating the requirements for batteries at the remote sites

For iDAS, indoor small cell and WiFi network equipment that consume more than 100 Watts of power, the Aggregator safely enables remote line powering over copper cable.

By combining the unit with products from Alpha® eLimiter™ family, the Aggregator meets the requirements for NEC Class 2 safety, enabling service providers to use conventional cable to remotely power the equipment. Class 2 compliance eliminates the need for conduit, licensed electricians and remote batteries, significantly improving the business case for the service provider.

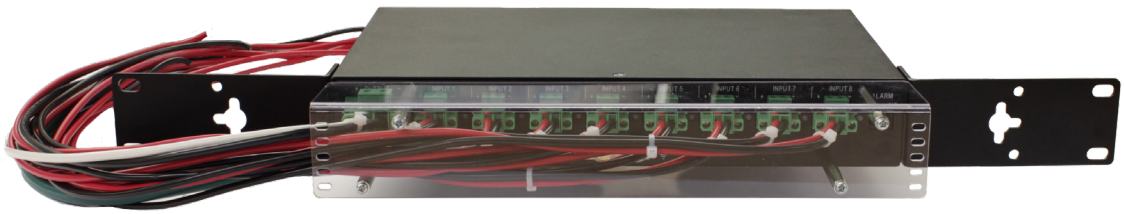
The Aggregator can terminate up to eight (8) NEC Class 2 circuits, combining them into a single 48V bulk output of up to 800 Watts. The unit is extremely compact, and can be either rack or wall mounted. It is a true front access device with all the user connections residing on the front face plate of the unit.

Aggregator Class 2 Circuit Aggregation Device

P/N: 0120046-001

Electrical	
Input Voltage:	48VDC Nominal Range: 35 to 60VDC (x 8 Class 2 Inputs)
Input Power:	8x 100VA Class 2 inputs: total 800VA max
Output Voltage:	48VDC Nominal
Output Power:	≤800W
Efficiency:	>98.5%
Voltage Drop Input/Output:	200mV/A nominal
Insertion Line Loss Per Channel:	• 2 channels active: 1.8W/channel • 4 channels active: 1.6W/channel • 8 channels active: 1.5W/channel
Connections:	**Input:** 8X 2 pos. plug-in TB, AWG #12-30 **Output:** 2 pos. plug-in TB, AWG #10-30 **Alarm:** 3 pos. plug-in TB, AWG #16-28 **Chassis Ground:** Accept ¼" - ⅜" center to center, dual hole terminal lug, max width 0.7" (18mm)
Mechanical	
Dimensions:	**mm:** 43.6H x 275W x 224.8D **inches:** 1.72H x 10.83W x 8.85D
Weight:	2.7kg (6lbs)

Environmental	
Storage:	-40 to 85°C (-40 to 185°F)
Humidity:	0 to 95% RH non-condensing
Elevation:	-500 to 2800m (-1640 to 9186ft)
Heat Dissipation:	<37.5 BTU per hour
Performance/Features	
MTBF:	>400,000 @ 30°C (86°F) ambient; test model Telcordia SR-332, Issue 2 (2006)
Alarm Relays:	• Form C contact • Triggered if any channel opens
Alarm Indicating LEDs:	• System OK (green) • Minor Alarm (yellow) • Major Alarm (red)
Agency Compliance	
Safety:	CSA/UL 60950-1
EMC:	ETSI 300 386
Emissions:	CFR47 (FCC) Part 15 Class A
Immunity:	EN 61000-4-2, 4-3, 4-4, 4-5, 4-6
NEBS/Telcordia:	GR-1089-CORE, GR-63-CORE
NEC: Input circuits need to be compliant to NEC article 725 (CEC article 16-200) requirements for class 2 power limited circuits and need to be supplied from the eLimiter™ product family	
Isolation: 2250VDC electrical isolation between output and earth/chassis (compliant with IEEE 802.3 at standard to meet PoE+ isolation requirement)	



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