

160 Amps @ -48VDC Converter

662 Converter Plant



Product Description

The 662 Plant is a DC-to-DC converter system that operates from +24VDC and outputs 10 Amps at -48VDC for each converter module installed. A total of four converter shelves are available with the system. When all four converter shelves are fully equipped with converter modules (four converter modules per shelf), the system will output a total of 160 Amps at -48VDC. These converters work in parallel to provide load sharing and redundancy, which are vital for network stability. They come equipped with a user-friendly interface for easy status indication and internal DC protection that reduces the risk of module failure due to a short circuit or high voltage condition. The SM48P10A-D converters mount laterally in a single, low profile shelf, which is the height of one DC-to-DC converter. Increasing converter capacity is done by simply plugging another DC-to-DC converter into the shelf, which requires no service interruption or special tools.

- **10 Amp DC-to-DC Converter Modules**
- **N + 1 Redundancy**
- **Expandable Up to Four Converter Shelves**
- **Three Different Input Configurations**
Individual, Dual & Bulk Feed
- **Distribution Module With 7 Plug-in Circuit Breakers**

Specifications

Input

Voltage Range	21 - 29VDC
Current	29 Amps maximum per converter module at minimum input voltage

Output

Voltage	-48VDC
Current	10 Amps per converter module

Environmental

Storage Ambient	-40°F to +158°F (-40°C to +70°C)
Operating Ambient	
Sea level to 4,800 ft.	23°F to 122°F (-5°C to +50°C)
Humidity	< 95% non-condensing (maximum)
Heat Dissipation per Hr.	205 BTU/hour per converter module installed

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Mechanical

Height	3.5" (89.9mm)
Width	23.0" (584.2mm)
Depth	18.0" (457.2mm)
Mounting	Relay rack
Cooling	Front to rear fans

Documentation

Product Manual	4380213PD
System Layout Drawing	438662P

Visual Indicators & Alarms

	LED Description	Name	Color
Converter Module:	DC Output Ok	OP OK	Green
	Fan Fail	FF	Red
	Converter Fail Alarm	CFA	Red
	Converter load 0 -50%	50% Load	Green
	Converter 51 - 100%	100% Load	Green
Distribution Head:	Power ON	GOOD	Green
	Plant Major	PMJ	Red
	Plant Minor	PMN	Yellow
	Distribution Fail Alarm	FA	Red

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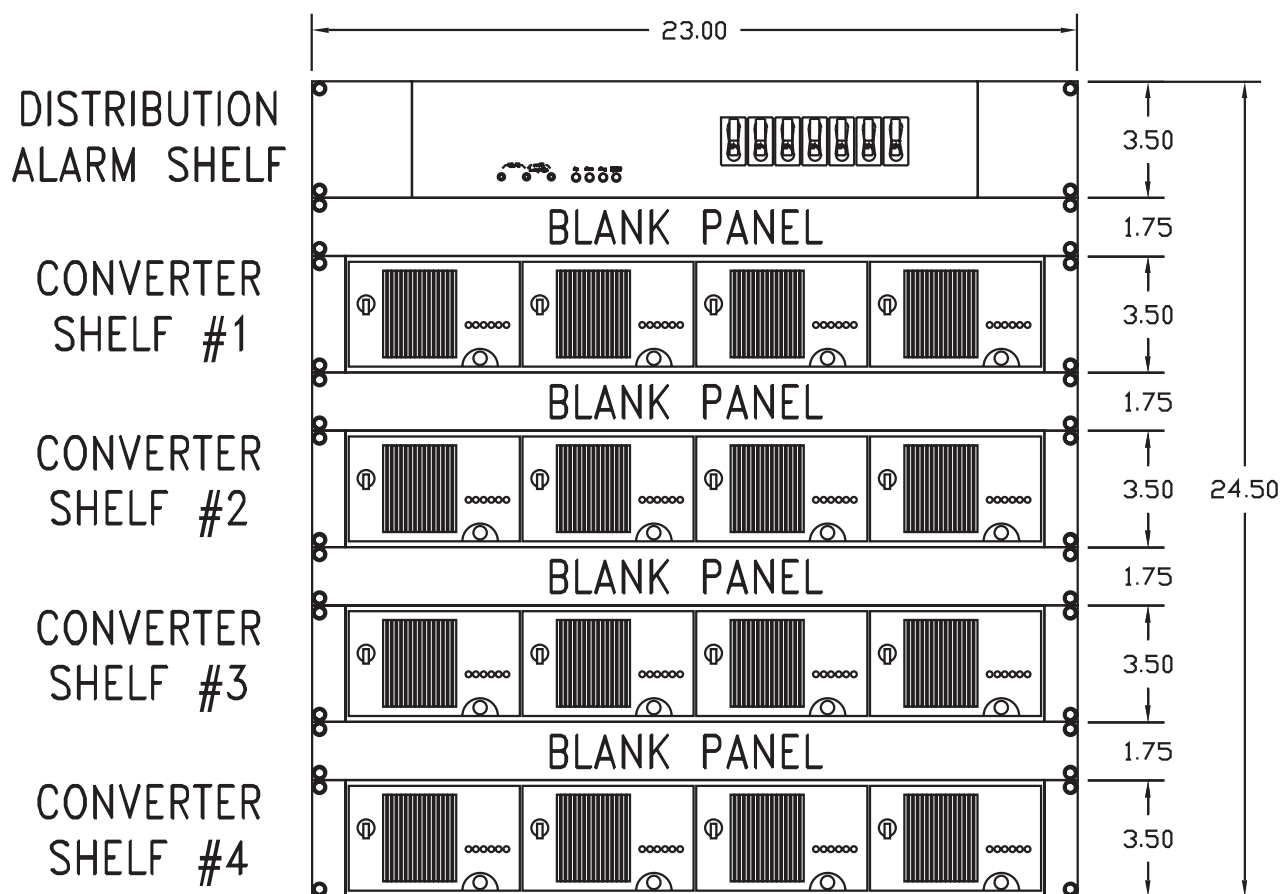
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Options

List #	Description	PECO II Part Number
1	23" converter shelf consisting of: mounting for (4) -48VDC @ 10 Amp converters, output power cables, LS cable, alarm cables, and a one position blank panel to be mounted in customer provided equipment. Equipped with bulk input.657662P-3
2	23" converter shelf consisting of: mounting for (4) -48VDC @ 10 Amp converters, output power cables, LS cable, alarm cables, and a one position blank panel to be mounted in customer provided equipment. Equipped with dual input.657662P-2
3	23" converter shelf consisting of: mounting for (4) -48VDC @ 10 Amp converters, output power cables, LS cable, alarm cables, and a one position blank panel to be mounted in customer provided equipment. Equipped with individual input.657662P-4
4	23" converter shelf consisting of: mounting for (4) -48VDC @ 10 Amp converters, LS cable, alarm pwb, and a one position blank panel to be mounted in customer provided equipment. Equipped with individual input.657662P-5
5	23" converter shelf consisting of: mounting for (4) -48VDC @ 10 Amp converters, LS cable, alarm pwb, and a one position blank panel to be mounted in customer provided equipment. Equipped with dual inputs.657662P-6
6	23" Converter shelf consisting of: mounting for (4) -48VDC @ 10 Amp converters, LS cable, alarm pwb, and a one position blank panel to be mounted in customer provided equipment. Equipped with bulk inputs.657662P-7
10	-48VDC @ 10 Amp converter	SM48P10A-D
15	Converter, blank panel4361150P
20	Distribution and alarm panel for (4) 60 to 100 Amp and (3) 2 to 50 Amp plug-in circuit breakers and for one to four converter shelves618662P-1
30	Relay rack 7'0" x 23" mounting6270008EQ

Line Drawing

Typical 662 is shown



Certifications:

