

1,200 Amps @ +24VDC & 40 Amps @ -48VDC 162LP Power System



- **New:** Low profile 1,200 Amps @ +24VDC or 800 Amps @ +24VDC and 40 Amps @ -48VDC
- **New:** Expanded distribution options
- **New:** Pluggable rectifier shelves that can be added in the field as required
- Designed to mount on top of VRLA batteries
- **Completely Front Accessible for Installation, Operation and Maintenance**

Product Description

The 162LP Low Profile Power and Distribution system from PECO II offers the benefits of +24VDC and -48VDC in one system. The system can be configured for up to 800 Amps of +24VDC and 40 Amps of -48VDC. If -48VDC is not required, the system can supply up to 1,200 Amps at +24VDC.

The 162LP has been updated to include more options than before, which allows configuration of the system to meet specific application requirements:

- A. Pluggable Rectifier Shelves - Defer initial expenses by equipping the 162LP with rectifier shelves as needed now, and then adding shelves later.
- B. Expanded Distribution - Select from 24, 36, or 48 position options that can use circuit breakers or fuses. An option for 125 to 450A circuit breakers is also offered.
- C. Easy Access – PECO II “vertical” distribution provides the industry’s easiest access to distribution connection points. Rectifier AC inputs are pre-wired to a convenient external connection box.

Refer to “Equipment and Options” to review all of the items that are now available to compliment the 162LP.

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Specifications

Input

Voltage Range	176 - 264VAC, single phase, 220VAC nominal
Frequency	47 - 63Hz
Current	16 Amps typical, 19 Amps maximum @ 100% load per rectifier

Output

Float Voltage Range	23.5 - 28.5VDC. Factory set @ 27.2VDC
Current	Maximum of 1200 Amps/800 Amps at + 24VDC per bay (from rectifiers) Maximum of 40 Amps at - 48VDC per bay (from converters)

Environmental

Storage Ambient	-40°F to +85°F (-40°C to +85°C)
Operating Ambient	23°F to 122°F (-5°C to +50°C)
Humidity	< 95% non-condensing (maximum)

Mechanical

Height	42.0" (1066.8 mm)
Width	23.62" (600 mm)
Depth	23.62" (600 mm)
Weight	420 lbs. (191kg) when equipped with 8 rectifiers and 4 converters
Mounting	23" equipment mounting
Cooling	Front-to-rear fans in rectifiers and converters

Documentation

Product Manual	4380224PD
J Drawing	J-438162P

Visual Indicators

	LED Description	Color	LED Description	Color
Plant Controller Front Panel	Power Major	Red	Battery Fuse	Red
	Power Minor	Amber	Battery Distribution	Red
	Rectifier Major	Red	Battery Discharge	Amber
	Rectifier Minor	Amber	Load Disconnect	Red
	Battery Monitor	Amber	Total Current	Amber
	Distribution Fuse	Red	AC Fail	Amber
	Distribution Current	Amber	Temp High/Low	Amber
	MMC OK	Green	Float Mode	Green
	Low Low Voltage	Red	Equalize Mode	Amber
	Low Voltage	Amber	BTC Active	Amber
	High Voltage	Red		

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Contact Closures

Power Major	Rectifier Major	AC Fail	High Voltage
Power Minor	Rectifier Minor	Battery on Discharge	High Temperature

Equipment and Options

List #	Description
L3	Basic bay, including plant controller and provision for 3 rectifier shelves or 2 rectifier shelves and 1 converter shelf. 23" equipment mounting in a front access enclosed frame. 23.62"W x 23.62"D x 42.0"H
L8	Customer input connection for 12AWG wiring
L9	Customer input connection for 10AWG wiring
L25	Distribution configuration: 24 total positions. 12 left / 12 right for plug in circuit breakers or fuses.
L26	Distribution configuration: 36 total positions. 18 left / 18 right for plug in circuit breakers or fuses.
L27	Distribution configuration: 48 total positions. 24 left / 24 right for plug in circuit breakers or fuses.
L28	Distribution configuration: 8 large frame circuit breaker position for GJ style circuit breakers (For use with L25 only)
L29	Distribution configuration: 4 positions for plug in circuit breakers. For use with L25 for DC/DC converter distribution if L42 is used
L30A	Pluggable rectifier shelf. 400A @ +24VDC, 220VAC input
L31	Blank panel for rectifier shelf
L32	Rectifier module, 100A @ +24VDC, 220VAC input
L33	Blank panel for unequipped rectifier module position
L42	40A converter shelf
L43	Converter module, 10A @ -48VDC, +24VDC input
L44	Blank panel for unequipped converter module position
L54	Converter distribution consisting of: (4) 2-60A plug in positions
L61	Low voltage load disconnect (LVLVD) for +24VDC, (2) 600A contactors
L71	Internal battery disconnect kit, 1200A contactor, equipped with manual bypass switch
L72	External battery or load disconnect kit. 800A dual fuse (wall mount)
L73	External battery or load disconnect kit. 125-250A dual circuit breaker (wall mount)
L74	External battery disconnect kit. 800A @ +24VDC contactor (wall mount)
L75	Emergency power off (EPO) wall switch, for use with L74 only
L90	Alarm cable, 25'. *50' included as standard equipment
L91	Alarm cable, 100'. *50' included as standard equipment
L92	Alarm cable, 150'. *50' included as standard equipment
L93	Alarm cable, 200'. *50' included as standard equipment
L95	Gateway kit used for remote communications. Use with Ethernet or RS232 port. Modem port available (L96)
L96	Modem communication kit for use with L95
L100	Installation hardware kit (output fastener hardware)
L101	Frame isolation hardware kit (washer and insulation pad)
L104	Base for mounting 162LP to floor (12" riser)
L105	Battery mounting base plate for: DEKA Unigy II style batteries
L106	Battery mounting base plate for: Mounting L3 directly to floor
L107	Battery mounting base plate for: DEKA 95-33L style batteries
L108/L109	Battery mounting base plate for: General purpose