

40 to 160 Amps @ +24VDC

128 Series



- **Versatile, Low Profile Design for Cabinet or Rack Mounting**
- **Space-saving so there is more room in a cabinet or rack for revenue generating equipment**
- **Full Monitoring and Alarm Capabilities, including Remote Access**
- **Optional Low Voltage Load Disconnect**
- **UL Approved**

Product Description

The PECO II 128 Power and Distribution system offers up to 160 Amps of +24VDC power in a compact, low profile design. Power, distribution, alarms, and monitoring are all contained within 7 inches of rack space, making this system ideal for applications where revenue-generating space is critical.

The 40 Amp switchmode rectifiers used in the 128 are completely plug-and-play, and can be added to the system without interrupting its operation. Distribution consists of four plug-in positions, which can be used for circuit breakers or fuses.

The digital controller included with the 128 system boasts 22 LED's for visual notification of alarms, as well as a two line LCD to view plant status. In addition, 9 relays for extending alarms are included. Access to the plant is available remotely through the optional Gateway feature, which allows the user to work more efficiently.

The 128 power system may be mounted in any 23" rack, frame or cabinet, including PECO II's NEBS compliant offerings. The system can accommodate up to 4 battery strings. Low voltage load disconnect (LVLD) is optional.

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Specifications

Input

Voltage Range	90-176VAC nominal input provides 40ADC output per rectifier
Frequency	47-63Hz
Current	15 Amps maximum per rectifier

Output

Voltage Range	23.5 – 28.5VDC (factory set @ 27.2 VDC)
Current	Maximum of 40 Amps per rectifier module, or 160 Amps for the system
Efficiency	91%

Noise

Voice Band	< 32dBnc (with battery)
Wide Band	< 100 mVrms (10 – 20MHz) / < 10 mV peak to peak (3.4MHz – 100MHz)
Acoustic	< 55dB

Environmental

Storage Ambient	-40°F to +185°F (-40°C TO +85°C)
Operating Ambient	-4°F to +167°F (-20°C to +50°C) De-rating above +122°F (+50°C)
Humidity	< 95% non-condensing
Heat Dissipation	750 BTU per rectifier module at full load

Mechanical

Height	7.0"
Width	23.0"
Depth	20.6"
Weight	58 lbs (unequipped), 101 lbs (fully equipped with 4 rectifiers)
Mounting	23" rack mount
Cooling	Front to rear fans in rectifier modules

Documentation

Product Manual	4380427PD
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Visual Indicators and Alarms

	LED Description	Color
System:	Power Major	Red
	Power Minor	Amber
	Rectifier Major	Red
	Rectifier Minor	Amber
	Battery Monitor	Amber
	Distribution Fuse	Red
	Distribution Current	Amber
	MMC OK	Green
	Low Low Voltage	Red
	Low Voltage	Amber
	High Voltage	Red
	Battery Fuse	Red
	Battery Disconnect	Red
	BTC Active	Amber
	Battery Discharge	Red
	Load Disconnect	Red
	Total Current	Amber
	AC Fail	Amber
	Temp High/Low	Amber
	Float Mode	Green
Equalize Mode	Amber	
Limited Recharge	Amber	
Rectifier Module:	AC Input Voltage OK	Green
	DC Output Voltage OK	Green
	Rectifier Fail Alarm	Red
	Rectifier Standby Mode	Green Flashing (DC Output Voltage OK LED)
Alarm Description (contact closures):	Power Major	PMJ
	Power Minor	PMN
	Distribution Fuse Alarm	DFA
	Low Voltage Alarm	LVA
	AC Fail	ACF
	Battery on Discharge	BOD
	High Voltage	HVA
	Temperature	Hi Temp
Low Voltage Disconnect	LVD	

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Options

Part #	Description
6875162P-128	128 basic plant: Includes rectifier shelf, digital controller, and 4 position distribution
SM100H24D	40 Amp rectifier module; +24VDC
4361179P	Blank cover for open rectifier space
438128P-L15	Battery disconnect kit
6200608P1-10001	Gateway for remote communications
6370418P	5' alarm extension cable
6370418P-1	50' alarm extension cable
6370418P-2	75' alarm extension cable
6370418P-3	100' alarm extension cable
438128P-L35	AC junction box for use with relay rack only, includes wire and conduit
3750113P	Battery/ambient temperature probe
6370385P	5' temperature probe extension
6370385P-10	10' temperature probe extension
6370385P-15	15' temperature probe extension
6370385P-20	20' temperature probe extension
6420590P	Battery tray assembly, 23" mounting, 20" deep
438128P-L51	Battery hold down
438128P-L52	Battery front support
438128P-L53	Battery disconnect without shunt, equipped with 100A circuit breaker on left side
438128P-L54	Battery disconnect with shunt, equipped with 100A circuit breaker on left side
438128P-L55	Battery disconnect without shunt, equipped with 100A circuit breaker on right side
438128P-L56	Battery disconnect with shunt, equipped with 100A circuit breaker on right side
6180323P-42P	Wall mount battery disconnect cabinet
3750296P	Emergency power off (EPO) switch
6270068P	Relay rack for 23" mounting
3780003P	Outdoor cabinet, 68"H x 28"W x 29"D. NEMA 3R, equipped with 2 battery pans and AC wiring for up to 3 circuits

Consult PECO II for other available equipment racks and enclosures to accompany the 128 power system