

PECO II®

138/139 Power System



- ▶ Wide variety of DC output distribution
- ▶ Positive output (138) and negative output (139)
- ▶ High efficiency with energy management
- ▶ Battery management
- ▶ Modular design lowers Installed First Cost
- ▶ Installer friendly cable management
- ▶ Ethernet connectivity with SNMP
- ▶ Converter options available
- ▶ Delivered fully assembled and tested to reduce installation time

■ ■ PRODUCT DESCRIPTION

Power for the equipment load, distribution, alarms, and monitoring are all contained within the 138/139 Power Plant using a minimum of rack space. The system's modular design enables users to add power capacity and protection devices as the load requirements increase.

Configurations are available to allow rectifiers and/or converters to be interchangeably energized in any power slot to create a dual-voltage power system. Available with your choice of DC distribution; Plug-in fuses/breakers, TPL fuses, GJ circuit breakers, and GMT fuses. As many as 80 plug-in positions can be equipped in a single bay. Low voltage battery (LVB) and low voltage load disconnect (LVD) options are also available.

- ▶ Individual or 2 rectifiers per AC input
- ▶ 23" mounting
- ▶ 3.5', 4', 6', 7', and 9' rack heights
- ▶ 26 status LED's
- ▶ Battery temperature compensation
- ▶ Controlled battery recharge
- ▶ High float current alarm
- ▶ 4 Auxiliary alarm inputs
- ▶ 2 EPO input connection points
- ▶ Circuit breakers up to 600 Amps
- ▶ Fuses up to 800 Amps
- ▶ 48V, 50 Amp and 24V, 100Amp rectifiers
- ▶ 30 Amp, 48V and 75Amp, 24V converters
- ▶ Front panel test jacks
- ▶ 10 alarm extension relays
- ▶ Optional battery disconnect/EPO
- ▶ Optional LVD with highly reliable latching

■ ■ APPLICATIONS

- ▶ Wireless Power Cabinets
- ▶ Base Termination Stations (BTS) Cabinets
- ▶ Base Termination Stations (BTS) Huts
- ▶ Controlled Environment Vaults (CEV)
- ▶ Small Center Office (CO) / Small MTSO Sites
- ▶ Remote Switches / Wireless Cell Sites

■ ■ SPECIFICATIONS

Input	24V Rectifier	48V Rectifier
Voltage Range	175 – 275VAC Nominal 208 / 240VAC	
Voltage Range, Low Line	85 – 140VAC Nom 110/120VAC	N/A
Frequency	45 – 66Hz	
Current	14.9A @ 208VAC, 12.9A @ 240VAC	14.5A @ 208VAC, 12.6A @ 240VAC
Customer Provided Protection	20A CB per rectifier	
Output		
Voltage Range	21 – 29VDC	42 – 58VDC
Current	100A per rectifier	50A per rectifier
Efficiency Rectifier	> 90% full load	> 96% full load
Converter	> 90% full load	> 90% full load
Noise		
Voice Band	< 32dBrc (with battery)	
Wide Band	≤ 100 mVrms (10 – 20MHz)/ < 250 mV peak to peak (0 – 100MHz)	
Acoustic	< 55dB	
Total Harmonic Distortion	> 5% at full load	
Environmental		
Storage Ambient	-40°F to +185°F (-40°C to +85°C)	
Operating Ambient	-40°F to +167°F (-40°C to +75°C)	
Humidity	< 95% non-condensing	
Heat Dissipation Per rectifier	930 BTU/hr	745 BTU/hr 371 BTU/hr in 2010
Per converter	615 BTU/hr	490 BTU/hr

Mechanical	Standard	Extended
Dimensions, Fully Equipped	36.8"H x 22"D x 23" mounting width	45.5"H x 22"D x 23" mounting width
Weight (approx)	450 lbs.	590 lbs.
Shelf Weight	15.1 lbs / 6.85 kg	
Rectifier Weight	5.2 lbs / 2.4 kg	
Cooling	Front to rear variable speed fans	
Safety & Compliance		
Safety Standards	ETL Listed to UL 60950-1-07 CAN/CSA C22.2 No. 60950-1-07 NEBS Certified	
Documentation		
Product Manual	4380478PD	
J Drawing	438138-9LP	
Phoenix II Manual	4380405PD	
Quick Start Guide	4380403P	



■ ■ POWER SYSTEM CONTROLLER FEATURES



- ▶ Ethernet connectivity and SNMP
- ▶ 26 Front panel status indicators
- ▶ 10 form-C alarm contacts
- ▶ 4 auxiliary alarm inputs
- ▶ 2 EPO connection points
- ▶ Remotely open load disconnect
- ▶ 2 optional temperature probes
- ▶ 6-line x 16 character backlit LCD
- ▶ Control knob navigation
- ▶ Front panel test jacks
- ▶ Audible alarm with cutoff
- ▶ Controller self test
- ▶ Remote operation of battery test
- ▶ Front panel test jacks