

60 Amps @ -48VDC
127NHL



- **New: Modem for accessing the system remotely**
- **New: Optional LVD**
- **Low profile design increases space for revenue generating equipment**
- **BTCM feature adjusts the output voltage according to the battery temperature**

Product Description

The space saving 127NHL power system from PECO II provides a regulated output of -48VDC @ 60 Amps when supplied with an input of 240VAC, or provides an output of 40 Amps when 120VAC is used.

The low-profile plant accommodates two switchmode rectifier modules, six distribution positions (up to 30A each), alarming, and user-friendly controls. If redundant operation is desired, the 127NHL will automatically operate using one rectifier to assume the 20/30 Amp load.

The system controller reports plant and rectifier data, extends plant alarms and compensates float voltage in relation to battery temperature. The controller also provides local and remote access for reporting plant status and data and changing plant settings via a local user display and/or via PECO II's Envision™ software. All installer connections are plug and play to facilitate installation. Total height of the system is 5 ¼".



The 127NHL equipped with the optional modem provides dial-up connectivity for use with PECO II's Envision™ monitoring software. With Envision™, user's can view system status and change plant settings via a remote PC. Envision™ may also be used to monitor the plant locally via the RS-232 interface located on the front of the plant controller.



Specifications

Input

Voltage Ranges	98 – 132VAC, 176 – 265VAC
Frequency Range	50 – 60Hz
Current*	12 Amps per rectifier 10 Amps per rectifier

Output

Float Voltage Range	50 – 60VDC
Float Factory Setting	54.45VDC
Regulation	+/- 0.5% line, +/- 1% load, at 10 to 100% load
Current*	20 Amps per rectifier 30 Amps per rectifier
Efficiency	88% at full load

Noise (with batteries)

Voice Band	32dBnC
Wide Band	250mV peak to peak, 10Hz – 14MHz

Environmental

Storage Ambient	-40°F to 185°F (-40°C to +85°C)
Operating Ambient	
Sea level to 4,800ft	32°F to 122°F (0°C to 50°C)
4,800ft to 7,000ft	32°F to 113°F (0°C to 45°C)
7,000ft to 10,000ft	32°F to 104°F (0°C to 40°C)
Humidity	<95% non-condensing
Heat Dissipation	761 BTU/hr per rectifier module

Mechanical

Height	5.22" (132.6mm)
Width	23.0" (584.2mm) or 19" (482.6mm)
Depth	11.3" (287mm)
Weight	System = 58lbs (26.3kg) Rectifier = 6.5lbs (2.9kg)
Mounting	Relay rack or cabinet
Cooling	Front-to-rear variable speed fans

Documentation

Product Manual	6420460P
J Drawing	438127NHL

*This rating is dependent upon the input AC used. The top rating is for 98-132VAC and the bottom rating is for 176-265VAC



Contact Closures

Power Major: Open on alarm and close on alarm available

Power Minor: Open on alarm and close on alarm available

Visual Indicators

	LED Description	LED Color
Rectifier	Fail	Red
	Standby	Amber
	Go	Green
System	Controller	Green
	Power Major	Amber
	Power Minor	Red
	Float Mode	Green
	Equalize Mode	Amber
	Low Voltage Disconnect (LVD)	Red
	Battery on Discharge	Red
	Distribution Fail Alarm	Red

Equipment Listing

List #	Description
L1	Basic system, rear access distribution, 19" mounting
L2	Basic system, rear access distribution, 23" mounting
L10	Optional LVD kit (factory installed only)
L15	Modem and Envision Software, includes serial cable
L16	Envision software kit, includes serial cable, software, and instruction manual (order L16 if you would like to use Envision without using the modem option)
L41	Rectifier module, gray, 115VAC/220VAC, 20/30ADC
L49	Blank panel for rectifier position, gray
L50	Battery monitor and temperature cable (1 per battery string, two strings maximum)
L53	Battery tray assembly, 23" mounting, front access type batteries
L54	Battery beaker assembly, 60 Amp
L64 – L67	Battery string cables with plant connectors (75A connector and 6AWG wire), 6', 8', 10', 12'. Required for L1 & L2.
L71 – L76	Alarm relay cable, 6', 9', 12', 15', 18', 20'
L80	125/250VAC cable, right angle plug without customer termination
L81	250VAC cable, right angle lug and twist-lock termination
L82	125VAC cable, right angle plug and IEC termination
L104	Distribution monitor – spare
L109	Simple controller module – spare
L115	Distribution connectors and lugs

Consult PECO II for available equipment racks, enclosures, circuit breakers, and other material to accompany the 127NHL system