

400 Amps @ -48VDC

135N-A1



- **Battery Temperature Compensation**
- **Manual Battery Disconnect**
- **Circuit Breaker Distribution Head Can Be Equipped With Up To 20 Plug-In Breakers**
- **Up to Four Battery Trays May Be Equipped**
- **Optional 2nd Rectifier Shelf**
- **Prioritized Load Shedding; A, B & C Load Sections**
- **50 Amp Modular Switchmode Rectifiers**
- **Digital Plant Volts & Amps Monitoring**
- **AC Input Junction Box**

Product Description

The 687135NA1 system is designed to provide 50 Amps of -48VDC output per rectifier module equipped. A total of eight rectifiers may be equipped in the system for a total output of 400 Amps at -48VDC. Load distribution is divided into three sections identified as A, B, and C. Combined, they offer provisions for twenty single pole, plug-in circuit breakers (50A max. per breaker).

Distribution assembly includes alarm outputs, digital meter, plant status LEDs & ground bus. The distribution assembly also includes three load low voltage disconnects (LVD). Each LVD has its own control to allow each sections (A, B, C) to have a different drop-out voltage set point, for load shedding so the critical circuits can be powered longer when the plant is operating on the batteries.

135N-A1 Power System Specifications

Input

Voltage Range	184 - 264VDC, single phase
Frequency Range	45 - 63Hz
Current	Individual 20 Amp feed per rectifier

Output

Float Voltage Range	50 - 60VDC, Factory Set @ 54.48VDC
Current	400 Amps max. (when 8 rectifiers are equipped)

Noise

Voice Band	<32dBnc
Wide Band	< 250mV peak to peak

Environmental

Storage Ambient	-40°C to +85°C (-40°F to +185° F)
Operating Ambient	
Sea Level to 4,800 ft.	32°F to 122°F (0°C to 50°C)
4,800 ft. to 7,000 ft.	32°F to 113°F (0°C to 45°C)
7,000 ft. to 10,000 ft.	32°F to 104°F (0°C to 40°C)
Humidity	< 95% non-condensing (maximum)
Heat Dissipation	1122 BTU per hour per rectifier module per 50 Amp

Mechanical

Height	84.0" (2133.6mm)
Width	23.0" (584.2mm)
Depth	18.0" (457.2mm)
Weight	290 lbs. (131.5kg) when equipped with 4 rectifiers, 1 rectifier shelf
Mounting	Rack mounted
Cooling	Fans in rectifier modules

Documentation

Product Manual	4380178PD
System Layout Drawing	J-438135NA1

Visual Indicators

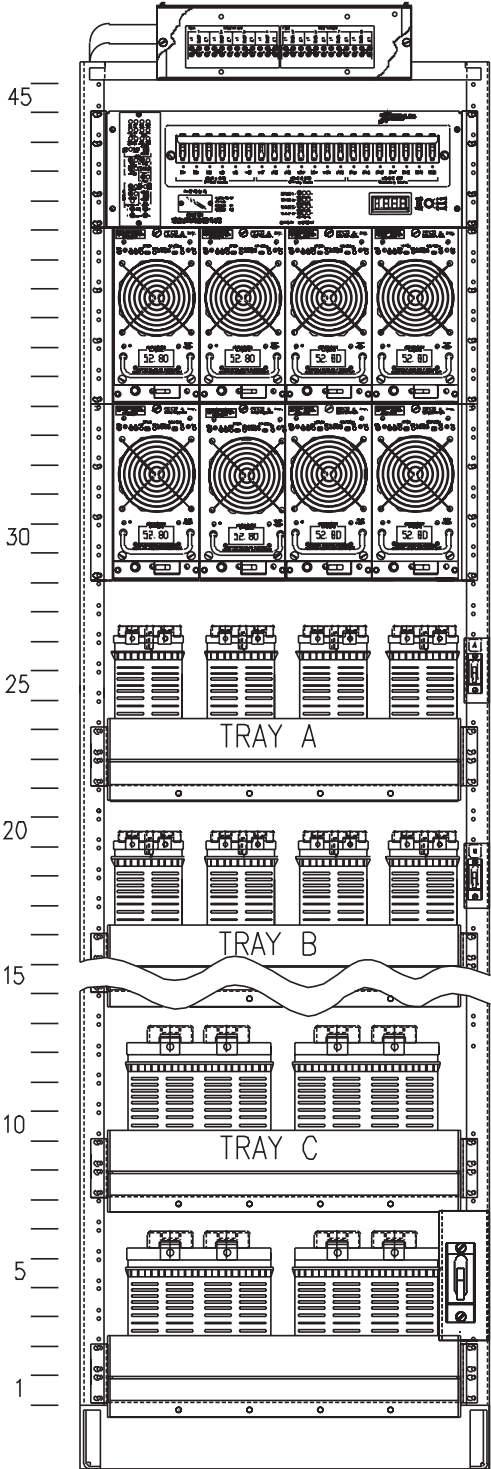
Rectifier Module:	LED Description	Name	Color
	Input Power On	Go	Green
	Unit Fail	Fail	Red
	Test Mode	Test	Amber
	Equalize Mode	Eq	Amber
Alarm Module:	Distribution Alarm	DIST ALM	Red
	Fuse or Sense Fuse Alarm	FA	Red
	Plant Major Alarm	PMJ	Red
	Plant Minor Alarm	PMN	Amber
	Rectifier Major Alarm	RFA_MAJ	Red
	Rectifier Minor Alarm	RFA_MIN	Amber
	High Voltage Alarm	HV	Red
	Low Voltage Alarm	LV	Red
	Alarm Cut Off	ACO	Amber
	Test	TEST	Amber
	Low Voltage Disconnect, B, C	LVD	Red, Red
	Battery Normal	BATT	Green
	Battery Disconnect	BAT DISC	Red
	Mid-Point Fail	MP FAIL	Red
	Mid-Point Null	MP NULL	Green
Battery Temperature Compensation (BTC):	BTC Fail	BTC FAIL	Red
	High Temperature	BTC HI TEMP	Amber
	BTC Compensate	BTC COMP	Green
	BTC Enable/Disable	BTC EN/DIS	Green Enable, Red Disable

Options

Description	PECO II Part Number
50 Amp rectifier module with digital meterSM50F48PM
50 Amp rectifier module without digital meterSM50F48PM-3
2nd rectifier shelf6571015BLK-5

Line Drawing

135N-A1 is shown



Certifications:

