

Infinity M[™] Power System

Dual Voltage, Rack Mounted Power System



- Dual Voltage power system with ultimate flexibility
- -48V up to 1,200A (65KW) or +24V up to 1,600A (44KW)
- Secondary voltage up to 600A
- High availability wireless telecom applications
- Telecom service providers
- Efficiency approaching 97%

Overview

The Lineage Power Infinity M™ DC energy system is a modular power plant that supports dual voltage (+24V/-48V) operation through the use of a comprehensive range of state of the art rectifiers and DC-DC converters. Primary voltage is supported by rectifiers and battery reserve, while secondary voltage is supported by DC-DC converter modules. Primary voltage can be -48V or +24V.

The Infinity M Power System has primary voltage capacity for +24V and -48V power up to 1,600A; secondary voltage capacity is up to 300A per expansion module.

Shelf / Bay Options

Infinity M systems may be equipped in a 7 ft 23" relay rack; a half height rack for mounting on battery stands; or mounting rails for field install applications. The distribution module is 14U (24.5") tall and accommodates up to 80 single voltage or selectable voltage bullet breaker positions. Universal shelves are 1U tall with four slots that accept any Infinity series rectifier or converter interchangeably in any power slot. This allows the available slots to be filled with the mix of power

modules desired. The only restriction is whether AC power is applied to the shelf. This gives extreme flexibility in the provisioning of power modules within the system.

Infinity Rectifier and Converter Family

The Infinity M offers DC rectifiers and converters for both +24V to -48V and -48V to +24V applications. Rectifiers and converters are color coded to quickly identify both the voltage and whether it is a rectifier or converter (orange for +24V and blue for -48V).

Rectifier and Converter Options:

- NE100AC24 Rectifier, 100A/24V Output
- NE050AC48 Rectifier, 50A/48V Output
- NE075AC48TEZ Rectifier, 75A/48V Output
- NE075DC24 Converter, 75A/24V Output
- NE030DC48 Converter, 30A/48V Output

Pulsar Plus Controller

The Infinity M utilizes the industry leading Pulsar Plus controller with Ethernet and SNMP communications to deliver extensive monitoring and control features with remote access.

Benefits

Reliability

- Distributed fault tolerance
- Proven field performance
- Controller continuity

Intelligence

- Industry leading controller features
- Ethernet interface for remote access
- Centralized network management

Investment Protection

- Module Compatibility
- Power Shelf Growth
- Secondary Voltage flexibility +24V / -48V
- Flexible Upgrade Options

On Time Delivery

- Standard building blocks
- 4 6 week availability
- 24/7 support

Total Efficiency

The Lineage Power Total Efficiency™ (TE) architecture reduces energy loss and lowers cooling costs by 50-70%. TE products will prioritize sustainable energy sources like solar, wind, water and fuel cells over traditional utility grid or diesel generator sources – and they will intelligently respond to smart grid information to reduce consumption during peak demand periods. Active Rectifier Management (ARM) and Battery Charging Optimization (BCO) features increase efficiency on current and legacy power infrastructures. The Total Efficiency architecture addresses issues end-to-end based on our proven experience and expertise in batteries, power distribution, DC energy systems, AC-DC power supplies, and DC-DC board mounted power to deliver a solution that is more safe, reliable and energy efficient than alternatives from our competitors.



Infinity Rectifiers and Converters



- Compact 1RU form factor providing high power density (24 W/in3)
- Dual Voltage compatibility the unique connector pin designation allows the rectifier
 to be used in a "universal" power shelf, alongside rectifiers or DC-DC converters with
 different output voltages.
- **Plug and Play** installation of the rectifier in a shelf connected to a compatible system controller initializes all set up parameters automatically. No adjustments are needed.
- Extended service life parallel operation with automatic load sharing ensures that parallel units are not unduly stressed even when a unit fails or is removed.
- Monitoring / control the built in microprocessor controls and monitors all critical rectifier functions and communicates with the system controller using the built in Galaxy Protocol serial interface.
- Fail safe performance hot insertion capabilities allow for rectifier replacement without system shutdown; soft start and inrush current protection prevent nuisance tripping of upstream breakers.
- Routers/switches
- Fiber in the loop
- Transmission

- Data networks
- PBX

Key Features

Applications

• Extended temperature range

• Telecommunications networks

• Digital subscriber line (DSL)

• Indoor/outdoor wireless

- Redundant fan cooling
- Front panel LED indicators
- 1U height, hi power density
- 220/110 V AC input
- Digital load sharing

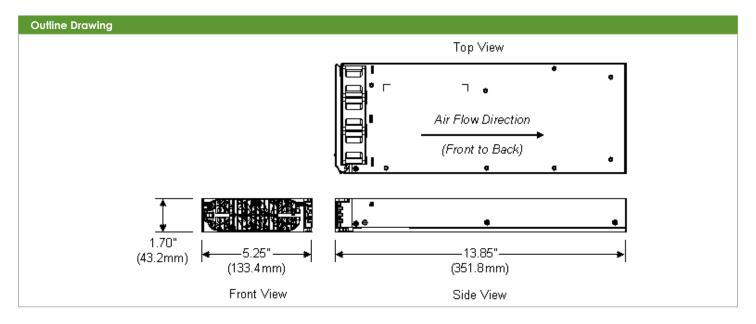
- Hot pluggable
- RoHS compliant

Specifications

Input	NE100AC24	NE050AC48	NE075AC48TEZ	NE030DC48	NE075DC24
Voltage Range - High-Line - Low-Line	175-275Vac 85-140Vac	175-275Vac -	175-275Vac 85-140Vac	21-30Vdc - -	42-60Vdc - -
Input Current	14.9A @208Vac 12.9A @240Vac	14.5A @208Vac 12.6A @240Vac	20.7A @208Vac 17.9A @240Vac	63A @27Vdc 81A @21Vdc	41A @54.5Vdc 54A @42Vdc
Input Frequency	45 – 66Hz	45 – 66Hz	45-66Hz	-	-
Power Factor	0.98 at>50% load	0.98 at>50% load	0.98 at>50% load	-	-
Efficiency	92%	93%	96+%	-	-
Total Harmonic Distortion	5% at full load	5% at full load	5% at full load	-	-
Output					
Voltage Adjust Range	21-29Vdc	42-58Vdc	42-58Vdc	46-57Vdc	23-28Vdc
Voltage Nominal	27.25V	54.5V	54.5Vdc	52.0V	27.2V
Regulation(with controller)	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Ripple	100mV rms	100mV rms	100mV rms	100mV rms	100mV rms
Psophometric Noise	2 mV	2 mV	2mV	2 mV	2 mV
Output Current - High-Line - Low-Line	100A @27.25V 44A @27.25V	50A @54.5V	50A@54.5V 22A@54.5V	30A @52.0V - -	75A @27.2V - -
Heat Dissipation @ max out	237W / 808 BTU/hr	205W / 699 BTU/hr	215W / 734 BTU/hr	154W / 525 BTU/hr	202W / 689 BTU/hr



Environmental	
Operating Temperature	-40°C to +75°C (-40 to 167 °F)
Storage Temperature	-40°C to +85°C (-40 to 185 °F)
Power De-Rating	2% per °C from +65°C to +75°C
Relative Humidity	95% max, non-condensing
Altitude	4,000M max
Mechanical	
Length (in. /mm)	13.85 / 351.8
Width (in. /mm)	5.25 / 132.8
Height (in. /mm)	1.70 / 43.2
Weight (lb / Kg)	5.2 / 2.4
Safety and Standards Comp	pliance
NEBs	Evaluated by independent NRTL test lab to Telcordia GR63 and GR1089-CORE, Issue 4
Safety	CE mark to Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/E UL 609501-1 Recognized CSA C22.2 No. 60950-1-03 Certified
RoHS	Compliant to RoHS EU Directive 2002/95/EC
EMC	FCC and EN 55022, Class A; FCC, Class A
ESD	EN61000-4-2, Level 4





Pulsar Plus Controller



The Pulsar Plus family of controllers provides system monitoring and control features for Infinity, CP, and other power systems. These controllers monitor and control system components including rectifiers, converters, and distribution modules via a multi-drop RS485 digital communications bus. System status, parameters, settings, and alarm thresholds can be viewed and configured from the controller's front panel display. Assignment and configuration of alarm inputs and output relays can be performed from a laptop computer connected to a local RS-232 or Ethernet port, or by remote access is through a network connection

to the World Wide Web (internet) or your enterprise network (intranet). An optional modem is also available.

This controller utilizes standard network management protocols allowing for advanced network supervision. Lineage Power Galaxy ManagerTM software is the centralized visibility and control component of a comprehensive power management system designed to meet engineering, operations and maintenance needs. The Galaxy Manager client-server architecture enables remote access to system controllers across the power network.

Applications

- Telecommunications networks
- Digital subscriber line (DSL)
- Indoor/outdoor wireless

- Routers/switches
- · Fiber in the loop
- Transmission

- Data networks
- PBX

Key Features

Remote Access and Features

- Integrated 10/100Base-T Ethernet Network
 - TCP/IP
 - SNMP V2c for management
 - SMTP for email
 - Telnet for command line interface
 - DHCP for plug-n-play
 - FTP for rapid backup and upgrades
 - HTTP for standard web pages and browsers
 - Compatible with Galaxy Manager and other management packages
 - Shielded RJ-45 interface referenced to chassis ground
- Password protected security levels: User, Super-User, Administrator for all access
- Ground-referenced RS232 system port
- ANSI T1.317 command-line interface
- Modem access support
 - Remote via external modem
 - Callback security
- EasyView2, Windows-based GUI software for local terminal or Modem access

Standard System Features

- Monitor and control of more than 60 connected devices
 - Robust RS485 system bus
- Standard and user defined alarms
 - Alarm test
 - Assignable alarm severity: Critical, Major, Minor, Warning, and record-only
 - 10 alarm relays (7 user assigned)
- Rectifier management features
 - Automatic rectifier restart
 - Active Rectifier Management ARM (energy efficiency)
 - Remote rectifier (on/off)
 - Reserve Operation
 - Automatic rectifier sequence control
 - N + X redundancy check
- Multiple Low Voltage Load and Low Voltage Battery Disconnect thresholds
- Configuration, statistics, and history
 - All stored in non-volatile memory
 - Remote/local backup and restore of configuration data
- Industry standard defaults
 - Customer specific configurations available
- Remote/local software upgrade
- Basic, busy hour, and trend statistics
- Detailed event history
- User defined events and derived channels

Standard Battery Management Features

- Float/boost mode control
 - Manual boost
 - Manual timed boost locally, T1.317, and remotely initiated
 - Auto boost terminated by time or current
- Battery discharge testing
 - Manual (local/remote)
 - Periodic
 - Plant Battery Test (PBT) input driven
 - Configurable threshold or 20% algorithm
 - Graphical discharge data
 - Rectifiers on-line during test
- Slope thermal compensation
 - High temperature
 - Low temperature
 - Step temperature
 - STC Enable/Disable, low temperature Enable/Disable
 - Configurable mV/°C slopes
- State of charge indication
- High temperature disconnect setting
- Reserve-time prediction
- Recharge current limit
- Emergency Power-Off input



Integrated Monitoring Inputs/Outputs

- System plant voltage (accuracy ±0.04V, resolution 0.01V)
- One system shunt (accuracy ±0.5% full scale, resolution 1A)
 - Battery or load
 - Mounted in the return side of DC bus
- Up to 15 binary inputs
 - Six inputs close/open to battery
 - 9 input close/open to return
 - User assignable
- Up to 7 Form-C output alarms (60VDC @ .5A)
 - User assignable
- 1-WireTM bus devices
 - Up to 16 temperature probes (QS873)
 - Up to 6 mid-string monitors (ES771)

Galaxy Manager Compatible

- Centralized web server and database with multiple user access to live or managed data with drill down to problem details
- Monitor and control of more than 40 connected devices
- Management information from polling or alarms received from alarm traps from multiple sites are available on one screen via the inter/intranet
- Trend user selected data over time
- Automatic or manual report generation
- Standard engineering tools like reserve time calculators and cable voltage drop analyzer

General	
Operating Voltage	±24 Vdc, ±48 Vdc (Range: ±18 to ±60 Vdc)
Input Power	Less than 7W
Operating Temperature Range	-40°C to +75°C (-40 to 167 °F)
Operating Relative Humidity	0 - 95% (non-condensing)
Storage Temperature Range	-40°C to +85°C (-40 to 185°F)
Physical Specifications	Sizes vary by packaging option
Display	8-line by 40-character with alarm context sensitive backlit LCD
EMC	FCC/EN55022 Class A, CISPR22 Level A

Agency Certifications			
Electrostatic Discharge	EN 61000-4-2 level 4		
Radiated Emissions	FCC Part 15, Class B EN55022 (CISPR22), Class A		
Safety	Underwriters Laboratories (UL) Listed per Subject Letter 1801: Power Distribution Center for Communications Equipment, and cUL Certified (CSA 22.2 950): Safety of Information Technology Equipment		
RoHS	Compliant to RoHS EU Directive 2002/95/EC		



Infinity M System



Infinity M may be configured as a +24V or -48V single voltage power system or as a dual voltage power system that supports rectifiers and converters. The primary voltage is supported by +24V or -48V rectifiers and battery reserve, while secondary voltage is supported by DC-DC converters. Infinity-M includes dedicated 24V, 48V and return buses. The primary voltage capacity is 1,600A at 24V and 1,200A at 48V. Secondary voltage capacity is up to 600A. The system includes low voltage battery disconnect option for the primary voltage. A low voltage load disconnect option can be used for load shedding to maintain critical loads.

Applications

- Wireless Telecom networks
- Central Office

Key Features

- Dual Voltage Flexibility
- Redundant fan cooling
- Front panel LED indicators

- Indoor/outdoor wireless
- Transmission

- Data networks
- PBX
- 1U height, hi power density
- 220/110 V AC input
- Digital load sharing

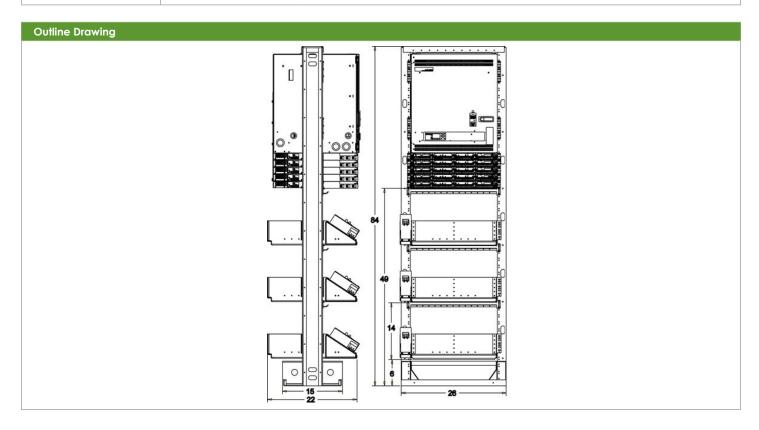
- Hot pluggable
- RoHS compliant

Specifications

Input	Min	Тур	Max	
Voltage Range - High-Line - Low-Line	175Vac 85Vac	220Vac 110Vac	275Vac 140Vac	Only available in 24V Rectifiers
Frequency	45Hz	60Hz	66Hz	
Power Factor	98%	99.5%		
Efficiency		Approaching 97%		
Total Harmonic Distortion			5%	
Primary Output				
Nominal Voltage	24\	/dc	-	48Vdc
Output Current	1,60	00A		,200A
Vo Setpoint (factory)	27.2Vd	dc±1%	-54.	5Vdc±1%
Vo Range	+21 Vdc to +29 Vdc -42 Vdc to -58 Vdc		c to -58Vdc	
Regulation	±0.5%			
Secondary Output				
Nominal Voltage	-48\	Vdc		24Vdc
Output Current	60	0A		600A
Vo Setpoint (factory)	-54.5V	dc±1%	27.:	2Vdc±1%
Vo Range	-42Vdc to -58Vdc		+21 Vdc to +29 Vdc	
Regulation	±0.5%			
Mechanical				
Height (in. /mm)	31.5 / 800 (Base system with 4 power shelves)			
Width (in./mm)	23 / 584.2 (Standard Frame)			
Depth (in./mm)	21 / 533.4			
Weight (lb / Kg)	350 / 159 (Base System with 4 power shelves and 7ft frame, no rectifiers)			



Environmental			
Operating Temperature	-40°C to +75°C (-40 to 167 °F)		
Storage Temperature	-40°C to +85°C (-40 to 185 °F)		
Power De-Rating	2% per °C from +65°C to +75°C		
Relative Humidity	95% max, non-condensing		
Altitude	4,000M max		
Safety and Standards Compliance			
NEBs	Evaluated by independent NRTL test lab to Telcordia GR63 and GR1089-CORE, Issue 4		
Safety	CE mark to Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/E UL 60950¬1-1 Recognized CSA C22.2 No. 60950-¬1-¬03 Certified		
RoHS	Compliant to RoHS EU Directive 2002/95/EC		
EMC	FCC and EN 55022, Class A; FCC, Class A		
ESD	EN61000-4-2, Level 4		





Ordering Information – Infinity M Power System

Ordering Guide

Infinity M may be configured as a +24V or -48V single voltage power system or as a "dual voltage" power system that supports rectifiers and converters. The primary voltage is supported by +24V or -48V rectifiers and battery reserve, while secondary voltage is supported by DC-DC converters. The primary voltage capacity is 1,600A at both 24V and 48V. Secondary voltage capacity is up to 600A.

Infinity M systems may be equipped in a 7ft framework, a half height (42") frame for mounting on battery stands, or supplied frameless for field install applications.

Features

- Infinity Series Rectifiers for +24V and -48V applications.
- Dual Voltage Bus architecture for easy growth and voltage migration
- DC-DC Converter support for dual voltage systems
- DC Distribution for both voltages, with Selectable Voltage panel availability
- Temperature hardened harsh environments. (-40°C to +75°C)
- Compact size: Base System with 4 power shelves occupies 18 RU (31.5 in) of 23" rack space (21" depth)
- Frame options Factory installed in 7ft or 42" tall, 23" wide frame or field installed in user supplied frame
- Battery connections, LVBD and LVLD options.
- Plug-N-Play Pulsar Plus controller with Web based interface for local and remote (LAN) access.
- Distribution options include 3A-250A bullet style circuit breakers, large G-J breakers to 600A and GMT fuses







Step 1: Select the Base Power System

Output	Ordering Code	Model	Frame	Picture
-48V	CC109152220	800A -48V single voltage system, includes 65 bullet breaker positions, plus 8 positions for large breakers, 4 Universal power shelves in 7ft Zone 4 frame, Door Mounted Pulsar 843C Controller, NO LVBD	7ft x 23" (Approx 34" open at bottom)	
800A		H5692448, G103, G843C, G220, G614, G622(2)	System Width 23"	
-48V	CC109152212	1,200A -48V single voltage system, includes 65 bullet brekaer positions, plus 8 positions for large breakers, 6 Universal power shelves in 7ft Zone 4 frame, Door Mounted Pulsar 843C Controller, NO LVBD	7ft x 23" (Approx 30" open at bottom)	
1200A		H5692448, G103, G843C, G220, G614, G622(2), G300 (2)	System Width 23"	0

-48V Primary voltage systems with +24V converters				
Output	Ordering Code	Model	Frame	Picture
-48V +24V	CC109146610	800A 48V system, includes 80 cb positions (65 positions primary voltage and 15 positions secondary voltage), 4 Universal Power shelves, in 7ft Zone 4 frame (maximum 1200 lbs.), Door Mounted Pulsar 843C Controller, NE830 Voltage Monitor, LVBD	7ft x 23" (Approx 34" open at bottom)	
48V, 800A 24V, 300A		H5692448, G104, G220, G600N, G615, G622-2, G843C	System Width 23"	
-48V +24V	CC109136917	1,000A 48V system, includes 55 cb positions (40 positions primary voltage and 15 positions secondary voltage), 5 Universal Power shelves, in 42", half height frame, Door Mounted Pulsar 843C Controller, NE830 Voltage Monitor, NO LVBD	42" x 23"	
48V, 1000A 24V, 300A		H5692448, G102, G843C, G830, G220, G615, G622, G300	System Width 23"	



Output	Ordering Code	Model	Frame	Picture
+24V -48V	CC109141974	1,200A 24V system, includes 80 cb positions (65 positions primary voltage and 15 positions selectable voltage), 4 Universal Power shelves, LVBD, 7ft Zone 4 frame, Door Mounted Pulsar 843C Controller, NE830 Voltage Monitor, LVBD	7ft x 23" (Approx 34" open at bottom)	
<mark>24V, 1200A</mark> 48V, 120A		H5692448, G103, G843C, G830, G210, G618, G622(2), 600N	System Width 23"	
+24V -48V	CC109141990	1800A 24V system, includes 80 cb positions (65 positions primary voltage and 15 positions selectable voltage), 7 Universal power shelves in 7ft Zone 4 frame (maximum 1200 lbs.), Door Mounted Pulsar 843C Controller, NE830 Voltage Monitor, NO LVBD	7ft x 23" (Approx 34" open at bottom)	
24V, 1800A 48V, 120A		H5692448, G104, G843C, G830, G210, G618, G622(2), G300 (3)	System Width 23"	.00
+24V -48V	CC109141966	1,200A 24V system, includes 80 cb positions (65 positions primary voltage and 15 positions selectable voltage), 4 Universal Power shelves, in 7ft Zone 4 frame (maximum 1200 lbs.), Door Mounted Pulsar 843C Controller, NE830 Voltage Monitor, NO LVBD	7ft x 23" (Approx 34" open at bottom)	
24V, 1200A 48V, 120A		H5692448, G104, G843C, G830, G210, G618, G622(2)	System Width 23"	



Notes:



Step 2: Select Rectifiers and Converters

Rectifiers			
	Ordering Code	Model	Photo
R ~	CC109138302	95-150Vac input, 24V, 45A output 175-275Vac input, 24V, 100A output	
100A		NE100AC24	- ATTACHER AND THE STATE OF THE
R ~	CC109124913	175-275Vac input, 48V, 50A output	
50A		NE050AC48	The state of the s
R ~	CC109163473	95-150Vac input, 48V, 25A output 175-275Vac input, 48V, 75A output	
75A		NE075AC48TEZ	

Converters	Converters				
	Ordering Code	Model	Photo		
C	CC109112471	21-29 Vdc input, 48V, 30A output			
30A		NE030DC48	Shanking E		
C	CC109142881	42-58 Vdc input, 24V, 75A output			
75A		NE075DC24	and continue		

Step 3: Select Alarm Cables

Alarm Cables		
Ordering Code	Model	Photo
CC848817651	50ft Auxiliary input alarm cable for Pulsar Plus Controller	
CC848817668	150ft Auxiliary input alarm cable for Pulsar Plus Controller	
CC109157442	15ft alarm cable for Pulsar Plus Controller	
CC848817635	50ft alarm cable for Pulsar Plus Controller	
CC848817643	150ft alarm cable for Pulsar Plus Controller	



Step 4: Select Distribution Components

Note: Infinity M systems all support plug-in (bullet style) breakers or fuse modules. Larger breakers can be 2 or even 3 poles. The multi-pole breakers MUST be used with the appropriate multi-pole adapter to parallel the poles for proper operation.

ering Code	Amperage	CB Positions (Poles)	Min Wire Gage	Photo
998137	3	1	10	
998145	5	1	10	
998152	10	1	10	
998160	15	1	10	
998178	16	1	10	
998186	20	1	10	
998194	25	1	10	
998202	30	1	10	
213486	40	1	8	
998210	45	1	8	
998228	50	1	6	
998236	60	1	6	
998244	70	1	2	
998251	80	1	2	
998269	90	1	2	
848808551	100	2	2	
185353	125	2	2	
185346	150	2	1/0	
564941	200	3	2/0	
573975	225	3	4/0	
535752	250	3	4/0	
848756916	2-pole Adapter bu accommodate loc	s for 100-150A breakers (order ad and return lugs)	2 per 2 pole breaker to	
848756924	3-pole Adapter bu accommodate loc	s for 200-250A breakers (order ad and return lugs)	2 per 3 pole breaker to	



Ordering Code	Amperage	WP-92461 List	Min Wire Gage	Photo
406700567	3	100	10	
406700583	5	101	10	
406700591	6	102	10	
406700609	10	103	10	
406700617	15	104	10	
406700625	20	105	10	
406700633	25	106	10	THE TRUE
406700641	30	107	10	
406700658	40	108	10	
406700674	50	109	8	
406700682	60	110	6	
406700690	70	111	6	
402328926	0.18 Alarm Fuse			
		Fuse or Fuse Head Remova		
CC408617410	Bullet Fuse Holder,	TFD-101-011-10 (Alarms on	Blown Fuse Only)	
Bullet Style GMT F	use Holder and GI	MT Fuses		
405006222	0.25A			
406976894	0.5A			
405673146	1.33A			
405181983	2A			
406976985	3A			
406159061	5A			
405725433	7.5A			
406159236	10A			
406473959	12A			
406700690	15A			
CC109103157		use Holder (Requires 2 bulle	et postions)	
		, ,		
408515823	Fuse Puller			
.00010020	. 030 1 01101			



KS22012 GJ Style	Breaker Kits for Field Installation of Group 617 / 614 Distributions	
Ordering Code	Description	Photo
CC109127635	150A Single Pole Breaker	
CC109127627	250A Single Pole Breaker	
CC109127486	400A Two Pole Breaker	
CC109151767	600A Three Pole Breaker	

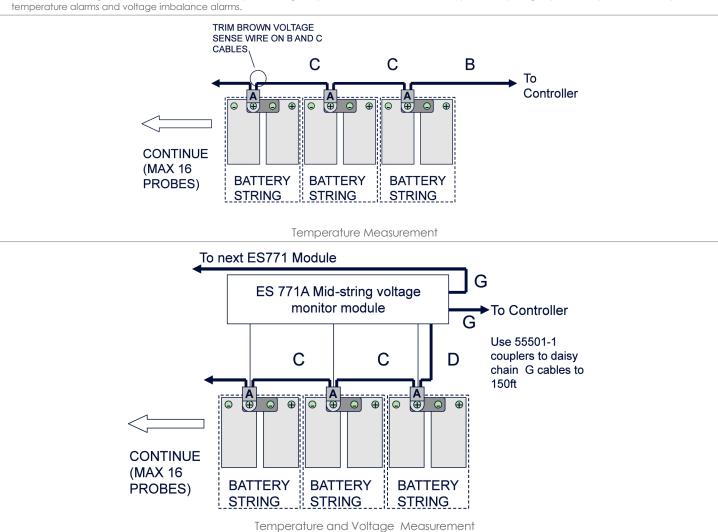
Ordering Code	STR Wire GA (Class B)	Flex Wire GA (Class I)	WP-91412 List	Photo
406021626	8	8	75	
405347519	6	6	3	西湖市 〇〇
405347576	4	4	5	
405348202	2	-	54	
405347683	-	2	8	
Terminal Lugs for	Battery and Large Breake	ers (3/8" bolt on 1" center	s)	
406338665	2	-	-	
405348228	1/0	-	-	
405348236	2/0	1/0	-	
406021725	-	2/0	-	
405348251	4/0	-	-	
405347923	-	4/0	-	
407890763	350	-	-	
407890748	-	350	-	
406335141	750	-	-	
407890730	_	750	_	



Step 5: Select Battery Monitoring

Ordering Code	Description		Photo
CC109142980	QS873A Thermal P	robe (A)	%
CC848817024	10 ft wire set	(B: thermal probe to controller)	
CC848822560	1 ft wire set	(C: thermal probe to thermal probe)	~
848719803	5 ft wire set	(C: thermal probe to thermal probe)	
CC848822321	10 ft wire set	(C: thermal probe to thermal probe)	
108958422	ES771A Battery Vo	ltage Monitor Card	
CC848791517	2-1/2 ft wire set	(D: ES771A to thermal probe)	
CC848797290	6 ft wire set	(D: ES771A to thermal probe)	
848719829	10 ft wire set	(D: ES771A to thermal probe)	
CC848791500	4 ft wire set	(G: ES771A to ES771A or controller)	
848652947	10 ft wire set	(G: ES771A to ES771A or controller)	
555052-1	In-Line Coupler (fo	r extending item G above)	

Temperature/Voltage probes are needed for battery monitoring. They are connected to each battery or battery string to provide slope thermal compensation,





Shelf Specifications

Mechanical		
Height	14RU main cabinet plus 1RU per power shelf – Base system 18RU (49 inches / 1244mm)	
Width (with mounting ears)	23 inches (584mm)	
Depth	21 inches (534mm)	
Weight (without rectifiers)	Approximately 350lbs (160kg) – Main System cabinet, 7 power shelves, 7ft frame	
Environmental		
Operating Temperature Range	-40°C to +75°C (-40 to 167 °F)	
Operating Relative Humidity	0 - 95% (non-condensing)	
Storage Temperature Range	-40°C to +85°C (-40 to 185 °F)	
EMC	FCC, EN 55022, CISPR22, Level A, conducted and radiated	
Immunity	FCC and CISPR22 (EN55022) Class A2	
Agency Certifications		
UL	Canada/US UL60950/UL1801	
EMI/EMC	CISPR class B conducted and radiated	
CE	CE mark meets 73/23/EEC and 93/68/EEC directives	

Additional Information

Product Documentation

H5692448: Ordering Guide

A copy of the appropriate installation manuals below ship with each system.

CC848815325: H5692448 Installation Guide

CC848815341: Advanced Features User Guide for the Pulsar Plus Controller, 167-792-183



Notes:



Notes:

Management Visibility

Galaxy Manager™ software is the centralized visibility and control component of a comprehensive power management system designed to meet engineering, operations and maintenance needs. The Galaxy Manager client-server architecture enables remote access to system controllers across the power network.

- Dashboard display with one-click access to management information database
- Trend analysis
- Scheduled or on demand reports
- Fault, configuration, asset, and performance management

Training

Lineage Power offers on-site and classroom training options based on certification curriculum. Technical training can be tailored to individual customer needs. Training enables customers and partners to more effectively manage and support the power infrastructure. We have built our training program on practical learning objectives that are relevant to specific technologies or infrastructure design objectives.

Service & Support

Lineage Power field service and support personnel are trusted advisors to our customers – always available to answer questions and help with any project, large or small. Our certified professional services team consists of experts in every aspect of power conversion with the resources and experience to handle large turnkey projects along with custom approaches to complex challenges. Proven systems engineering and installation best practices are designed to safely deliver results that exceed our customers' expectations.

Warranty

Lineage Power is committed to providing quality products and solutions. We have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired or replaced as soon as possible.

The Lineage Power Infinity M comes with a 2 year hardware warranty. For full warranty terms and conditions please go to www.lineagepower.com/warranty.

Contact Us

For more information, call Lineage Power toll free at **877-LINEAGE (877-546-3243)**, or +1 972 244 9288 and visit us on the Web at **lineagepower.com**

Lineage Power reserves the right to change specifications without notice. Please contact your Lineage representative to confirm current specifications. Please visit www.lineagepower.com/patents for patents and trademark information.

