POWERLOK

GATEVIEW TECHNOLOGIES
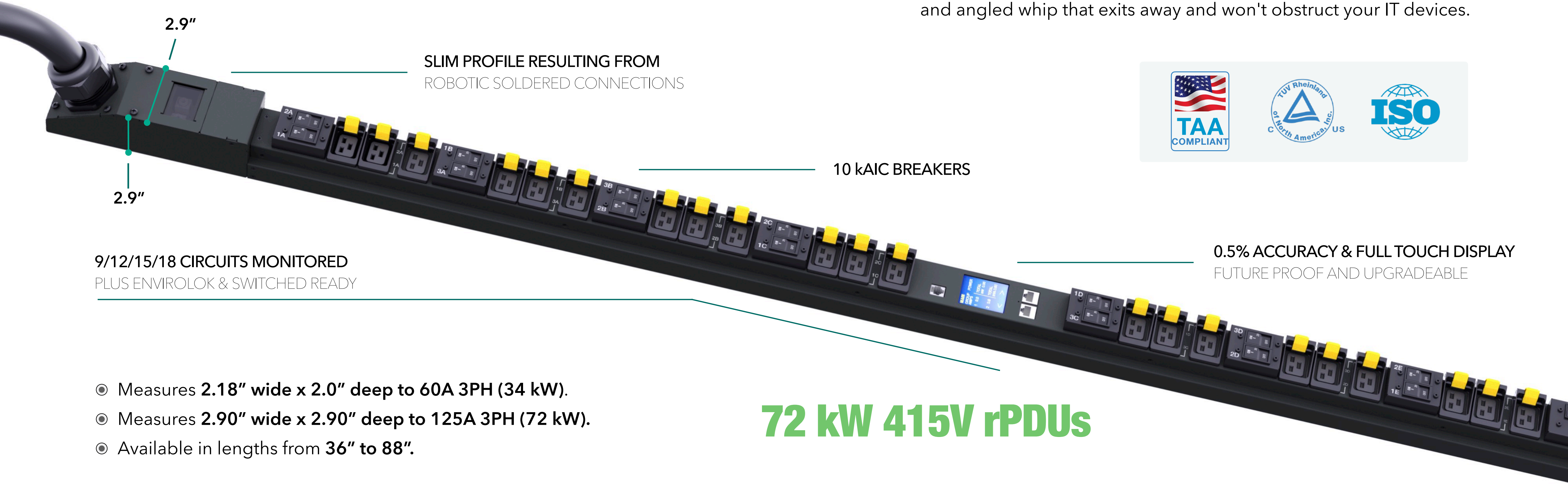
Powering IT starts with reliability™

PowerLOK 9000 Series | In-Rack HPC Power

With 7 high performance compute (HPC) power types utilizing a single automated build method, PowerLOK rPDUs are set apart for rack power distribution. PowerLOK was conceptualized for HPC with input from industry leaders such as: Oracle, Digital Realty and Hubbell.

Industry leading power density to 72 kW per rPDU

More easily access your racked equipment. PowerLOK features a slim profile and angled whip that exits away and won't obstruct your IT devices.

2.9"

2.9"

SLIM PROFILE RESULTING FROM
ROBOTIC SOLDERED CONNECTIONS

10 kAIC BREAKERS

TAA COMPLIANT

TÜV Rheinland of North America US

ISO

9/12/15/18 CIRCUITS MONITORED
PLUS ENVIROLOK & SWITCHED READY

0.5% ACCURACY & FULL TOUCH DISPLAY
FUTURE PROOF AND UPGRADEABLE

- Measures **2.18" wide x 2.0" deep to 60A 3PH (34 kW)**.
- Measures **2.90" wide x 2.90" deep to 125A 3PH (72 kW)**.
- Available in lengths from **36" to 88"**.

72 kW 415V rPDUs

Gateview Technologies is a Made in America rPDU manufacturer that's providing a more robust rPDU, customizable configurations, and a longer standard warranty.

7 HPC power types. 1 build method.

Highly tooled components **maintain quality** and allow **rapid build-to-order** in the USA.

- Currently up to 72kW in a single rPDU.
- With two units, place 144kW in 5.8" of total width.

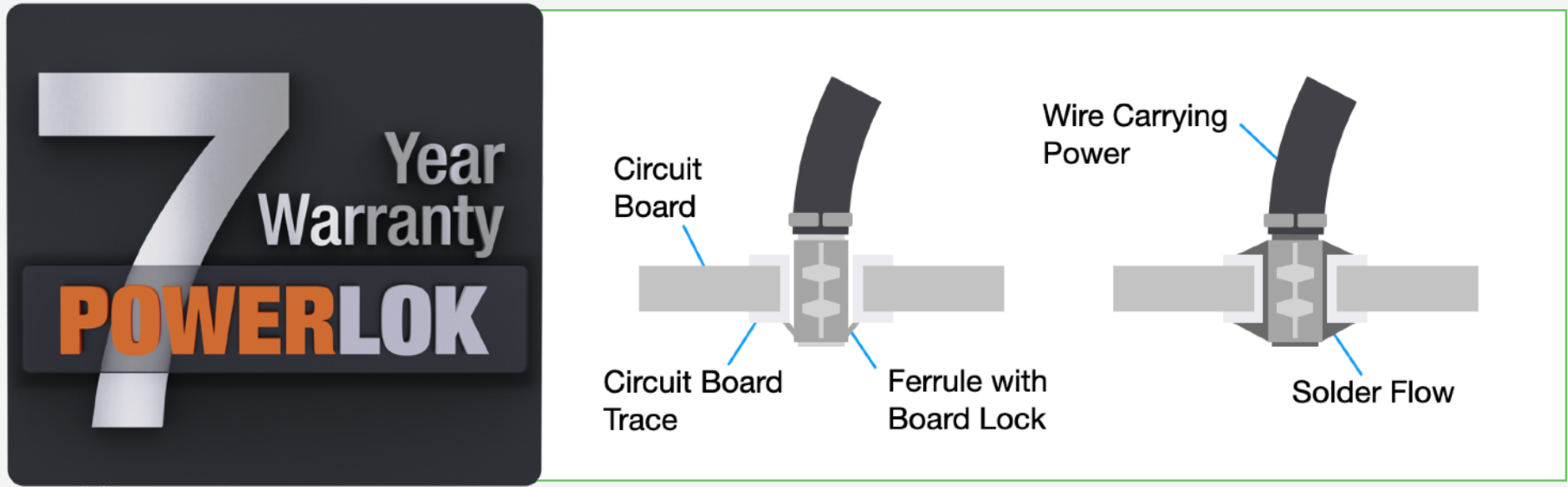| 8000 SERIES | 208/240V & 415V		9000 SERIES | 208/240V		9100 SERIES | 240/415V	
1	60A 208/240V DELTA 3PH	4	100A 208/240V DELTA 3PH	6	100A 240/415V WYE 3PH
2	30A 240/415V WYE 3PH	5	125A 208/240V DELTA 3PH	7	125A 240/415V WYE 3PH
3	60A 240/415V WYE 3PH		**Up to 36 kW per rPDU**		**Up to 72 kW per rPDU**
	Up to 34 kW per rPDU				

Ask about 175A 415V (100kW) in a single rPDU.

Advanced testing & quality

With increased rack temperatures and temperature cycling, inferior internal electrical connections no longer provide reliability. PowerLok's patented construction and machine soldered rPDUs enable an industry leading **7-year Warranty**.

- 100% automated crimp and robotically soldered.
- 36 quality procedures for every PDU.
- Fully automated production testing.
- TAA and built-to-order in the USA.

Patented design for automation technology

7 Year Warranty POWERLOK

Circuit Board

Wire Carrying Power

Circuit Board Trace

Ferrule with Board Lock

Solder Flow

Machine applied wire ferrules, soldered contact points and half the connections versus typical PDUs. Evaluated to be 3X less likely to experience power connection failure. Independent study done by Steve Fairfax, mtechnology.

Since 1996, **mTechnology** has applied Probabilistic Risk Assessment (PRA) for high-availability electric power suitable for computers and mission-critical facilities.

Report rPDU internal temperature for high-heat racks

Internal rack PDU temperature monitoring is standard on every intelligent rack PDU. For rack temperature and humidity monitoring, add a 2, 3, or 4 pack of EnviroLOK sensors.

INTERNAL PDU TEMP ∨

PEAK **45C**
NOW **41C**

○ Fahrenheit
● Celsius

Set Alarm 60 °C Apply

Time Interval: 8 hrs.

75
60
45
30
15
0

-2 WEEKS   -1 WEEK   NOW
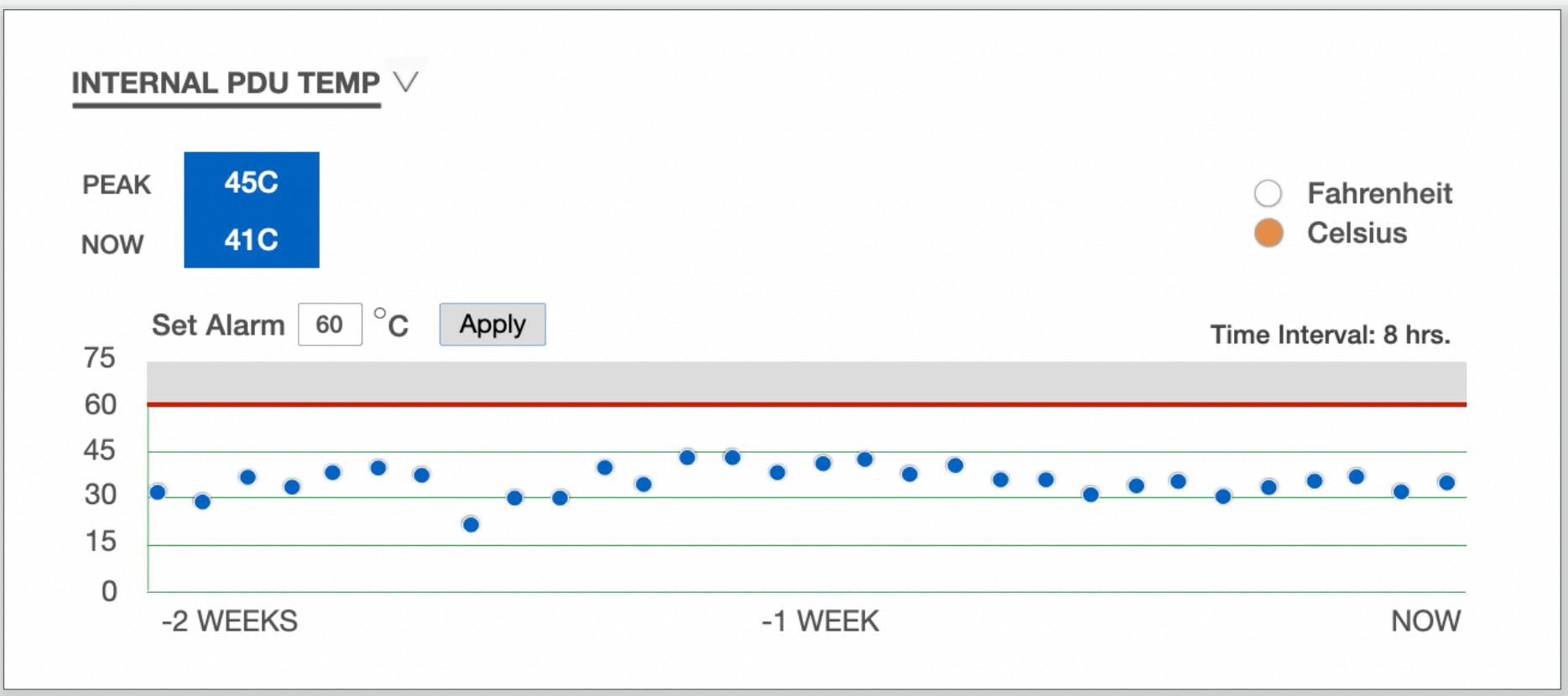
100A & Greater rPDUs with 72kW per rPDU at 125A, 415V

With advanced construction and automated build method, PowerLok is set apart from its competition. PowerLok has the most compact power dense form for high performance computing. With 100% robotically soldered connections, you have confidence that you have the most reliable product available

POWERLOK 9000 SERIES |
100A & 125A rPDUs

Reliable, high amperage rPDUs

100 & 125A rPDUs available up to 72kW per rPDU. Hardware versions available for customers desiring to make their own upstream connection.

◉ 208V or 415V Inputs to 72kW per rPDU.
◉ Never fry a power supply due to loose neutrals.
◉ 36 Quality procedures for every rPDU.
◉ Made in USA, TAA compliant, UL62368, CSA C22.2

TAA COMPLIANT   **TÜV Rheinland of North America, Inc. US**   **ISO**

Many available configurations

With 300+ high amperage PDUs available, choose from power type, input method, PDU length, intelligent, receptacle mix, and four colors. Additional colors available on request.

◉ 36", 41", 78" & 88" standard lengths.
◉ Additional lengths available.
◉ Hardware versions available for every model.

> 144 kW redundant configuration shown at 12" width and 2.9" deep.

Automated construction

Patented design and construction methods allow for automated assembly. All unreliable mechanical type electrical connections have been eliminated.

◉ Follows NASA crimp + solder termination standards.
◉ Eliminates unreliable wiring & termination methods.
◉ Allows an industry leading power density.

Automated Soldering

Advanced capabilities not found on other rPDUs

From 20A to 125A, Gateview Technologies in-rack PDUs have advanced features and are assembled in the USA.

◉ 0.5% power monitoring accuracy.
◉ PDU internal temperature reporting.
◉ Scalable switching technology.
◉ Angled whip to ease rack exit and not obstruct gear.
◉ Superior locking receptacles using your IT device cords.

Slim Profile for 100/120A
Only 2.9" x 2.9"

Reliable Cord Locking
Using standard cords

Robotically Soldered
Line input to every outlet

0.5% Monitoring Accuracy
And a buttonless touch-screen

Scalable Switching
Add switching cords when needed

Choose Colors
At no additional cost

7 Year
Industry Leading
7-year warranty

Fast-Response PDUs
Build-to-order in 3-5 Days

Intelligent Power

Advanced connectivity and monitoring, scalable switching capability, multiple device deployment and management, full touchscreen display, and internal rPDU temperature monitoring set PowerLOK apart for intelligent rack power.

POWERLOK

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Powering IT starts with reliability™

MAIN

AMPS		POWER
1A	12.2	TOTAL
1B	11.8	kW 15.4
2A	10.3	
2B	10.5	TOTAL
3A	10.8	kVA 16.0
3B	11.2	

< >

GROUP

	kW	kVA
1A	2.87	2.93
1B	2.75	2.83
2A	2.38	2.45
2B	2.42	2.50
3A	2.45	2.58
3B	2.57	2.68

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LINE

AMPS	kW	PF
A	24.0	5.62	0.98
B	20.8	4.80	0.97
C	22.0	5.02	0.95

< >

PF / VOLTS

PF		VOLTS
1A	0.98	A/1A&B
1B	0.97	240
2A	0.97	B/2A&B
2B	0.97	238
3A	0.95	C/3A&B
3B	0.96	239

< >

SETTINGS

Alarm Thresholds
Primary Only 80% ⬤
Primary Redundant 40% ⚪
Primary Redundant 45% ⚪
Rotate Display ⬤

< >

ADMIN

Serial Number: 20G01190001
Firmware Ver: 1.0.0
Boot Load Ver: 1.10.2
IP Address: 198.168.2.100
MAC Address: E0.1B.23.CD.45
Hardware Ver: 1.2.3
Internal Temp: 37C

< >

0.5% power monitoring plus simplified device configuration

Industry leading PDU power monitoring accuracy and simplified mass deployment using the GV-Power Device Manager application. Mass deploy PDUs with a high degree of accuracy and at much lower cost than legacy products.

Monitoring Accuracy:
Voltage +/- 0.5% at nominal current within 0.5% from 1A to 30A. +/-1% from 500mA to 1A.
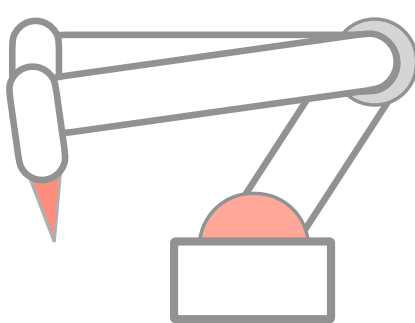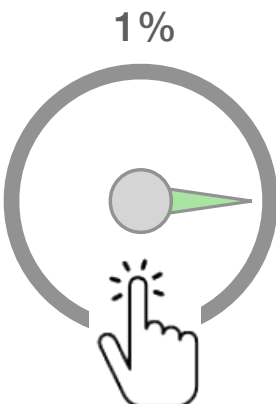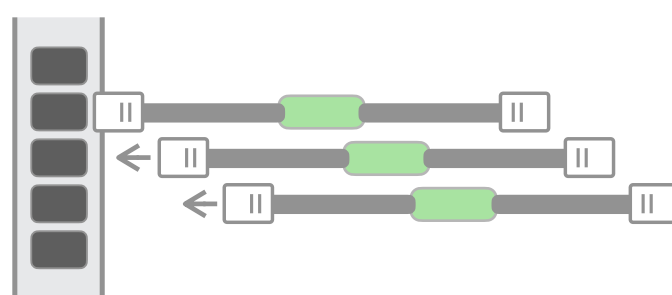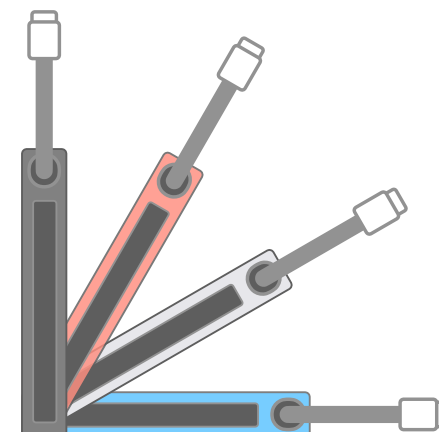
Complete Monitoring:
Aggregate (kWh, W, VA) plus group/phase monitoring (kWh, W, VA, V, A).
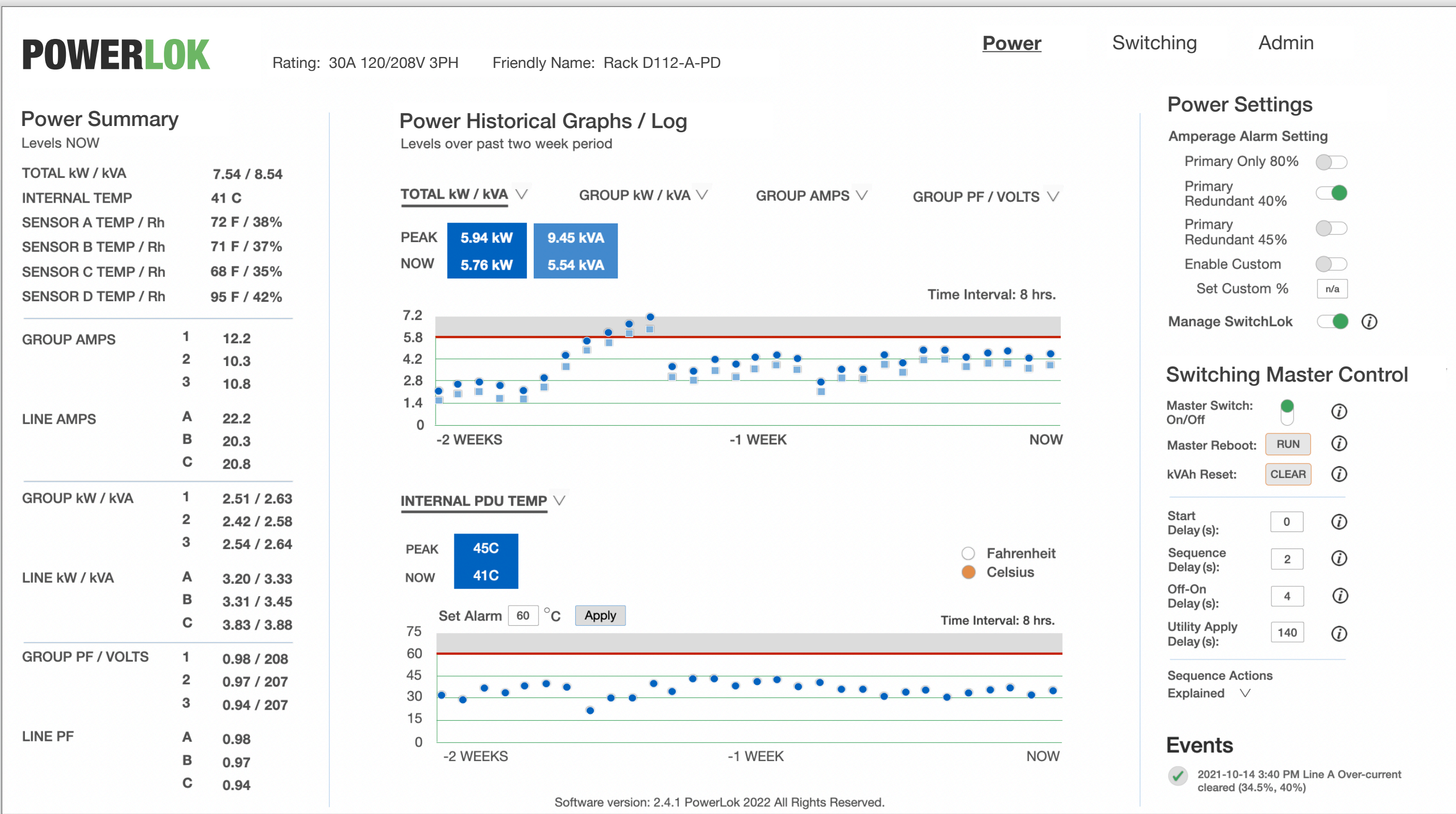
Network Applications:
HTTP/HTTPS, RESTful API monitoring and visibility, SNMP-V1/V2c/V3 network management. Download robust MIB and API lists for quick integration with DCIM platforms.

Network Interface/Transport:
Ethernet RJ45 & TCP/IP v4, v6, daisy chain up to 16 PDU capability.

Multiple rPDU Device Management:
Gateview Device Manager GV-Power manages configurations and firmware for multiple rPDU devices over the network.

POWERLOK

Rating: 30A 120/208V 3PH   Friendly Name: Rack D112-A-PD

Power   Switching   Admin

Power Summary
Levels NOW

TOTAL kW / kVA	7.54 / 8.54
INTERNAL TEMP	41 C
SENSOR A TEMP / Rh	72 F / 38%
SENSOR B TEMP / Rh	71 F / 37%
SENSOR C TEMP / Rh	68 F / 35%
SENSOR D TEMP / Rh	95 F / 42%

GROUP AMPS	1	12.2
	2	10.3
	3	10.8
LINE AMPS	A	22.2
	B	20.3
	C	20.8
GROUP kW / kVA	1	2.51 / 2.63
	2	2.42 / 2.58
	3	2.54 / 2.64
LINE kW / kVA	A	3.20 / 3.33
	B	3.31 / 3.45
	C	3.83 / 3.88
GROUP PF / VOLTS	1	0.98 / 208
	2	0.97 / 207
	3	0.94 / 207
LINE PF	A	0.98
	B	0.97
	C	0.94

Power Historical Graphs / Log
Levels over past two week period

TOTAL kW / kVA ∨   GROUP kW / kVA ∨   GROUP AMPS ∨   GROUP PF / VOLTS ∨

PEAK	5.94 kW	9.45 kVA
NOW	5.76 kW	5.54 kVA

Time Interval: 8 hrs.

7.2 / 5.8 / 4.2 / 2.8 / 1.4
-2 WEEKS   -1 WEEK   NOW

INTERNAL PDU TEMP ∨

PEAK	45C
NOW	41C

⚪ Fahrenheit
🔴 Celsius

Set Alarm 60 °C Apply

Time Interval: 8 hrs.

75 / 60 / 45 / 30 / 15 / 0
-2 WEEKS   -1 WEEK   NOW

Power Settings

Amperage Alarm Setting
Primary Only 80% ⚪
Primary Redundant 40% 🟢
Primary Redundant 45% ⚪
Enable Custom ⚪
Set Custom % n/a
Manage SwitchLok 🟢 ⓘ

Switching Master Control

Master Switch: On/Off 🟢 ⓘ
Master Reboot: RUN ⓘ
kVAh Reset: CLEAR ⓘ

Start Delay (s):	0	ⓘ
Sequence Delay (s):	2	ⓘ
Off-On Delay (s):	4	ⓘ
Utility Apply Delay (s):	140	ⓘ

Sequence Actions Explained ∨

Events

✓ 2021-10-14 3:40 PM Line A Over-current cleared (34.5%, 40%)

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INTERNAL PDU TEMP ∨

PEAK	45C
NOW	41C

⚪ Fahrenheit
🔴 Celsius

Set Alarm 60 °C Apply

Time Interval: 8 hrs.

75 / 60 / 45 / 30 / 15 / 0
-2 WEEKS   -1 WEEK   NOW

Report rPDU internal temperatures for high-heat racks

Internal rack PDU temperature monitoring is standard on every intelligent rack PDU. For rack temperature and humidity monitoring, add a 2, 3, or 4 pack of EnviroLOK sensors.

Monitoring Accuracy:
0.2C temperature, 2% Rh accuracy.

Sensor Array:
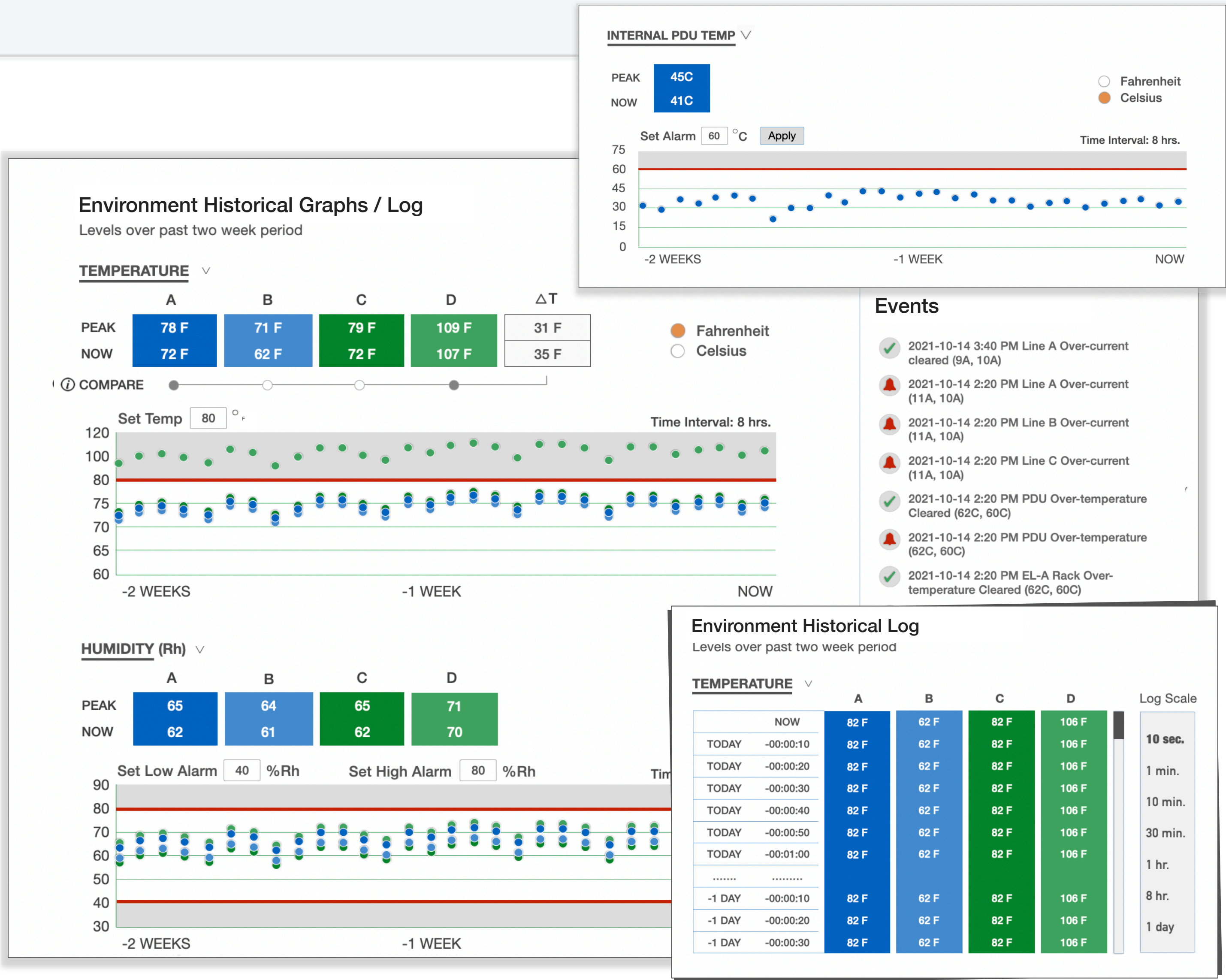Daisy chain up to 4 sensors.

Power Saving:
Battery-less sensors, very low power over supplied cable.

Communication:
Internal rPDU and sensor data is communicated through the network interface.

Sensor Application:
Only 1.4" x 1.4" in size, easily attach to rack environment with supplied velcro strap or attach using integrated magnets.

Environment Historical Graphs / Log
Levels over past two week period

TEMPERATURE ∨

	A	B	C	D	ΔT
PEAK	78 F	71 F	79 F	109 F	31 F
NOW	72 F	62 F	72 F	107 F	35 F

🔴 Fahrenheit
⚪ Celsius

ⓘ COMPARE

Set Temp 80 °

Time Interval: 8 hrs.

120 / 100 / 80 / 75 / 70 / 65 / 60
-2 WEEKS   -1 WEEK   NOW

HUMIDITY (Rh) ∨

	A	B	C	D
PEAK	65	64	65	71
NOW	62	61	62	70

Set Low Alarm 40 %Rh   Set High Alarm 80 %Rh

90 / 80 / 70 / 60 / 50 / 40 / 30
-2 WEEKS   -1 WEEK

Events

✓ 2021-10-14 3:40 PM Line A Over-current cleared (9A, 10A)
🔺 2021-10-14 2:20 PM Line A Over-current (11A, 10A)
🔺 2021-10-14 2:20 PM Line B Over-current (11A, 10A)
🔺 2021-10-14 2:20 PM Line C Over-current (11A, 10A)
✓ 2021-10-14 2:20 PM PDU Over-temperature Cleared (62C, 60C)
🔺 2021-10-14 2:20 PM PDU Over-temperature (62C, 60C)
✓ 2021-10-14 2:20 PM EL-A Rack Over-temperature Cleared (62C, 60C)

Environment Historical Log
Levels over past two week period

TEMPERATURE ∨

		A	B	C	D	Log Scale
	NOW	82 F	62 F	82 F	106 F	10 sec.
TODAY	-00:00:10	82 F	62 F	82 F	106 F	1 min.
TODAY	-00:00:20	82 F	62 F	82 F	106 F	
TODAY	-00:00:30	82 F	62 F	82 F	106 F	10 min.
TODAY	-00:00:40	82 F	62 F	82 F	106 F	30 min.
TODAY	-00:00:50	82 F	62 F	82 F	106 F	
TODAY	-00:01:00	82 F	62 F	82 F	106 F	1 hr.
....						8 hr.
-1 DAY	-00:00:10	82 F	62 F	82 F	106 F	
-1 DAY	-00:00:20	82 F	62 F	82 F	106 F	1 day
-1 DAY	-00:00:30	82 F	62 F	82 F	106 F	

In-Rack HPC Series 9000 Power

POWERLOK

GATEVIEW TECHNOLOGIES

Powering IT starts with reliability™

With 7 HPC power types utilizing 1 automated build method, all PowerLOK rPDUs are rapidly built to order.
Contact us for more options that include: whip lengths, plug types, intelligence types and colors.

HPC Models

Monitored models shown in table also available as:

- Basic (replace M or V with B designator for no monitoring).
- Monitored & Switched Ready (replace M or V with S designator).
- Colors (replace C-carbon designator with: R-red, B-blue, or W-white).
- Whip Length (replace 06 for 6' with XX for any length up to 15').
- No Plug for Hardwire (add X to number suffix (Ex: PL8607M-06XC).

Monitored Model	Amps	Voltage	kW per rPDU	kW Using Multiples 2	kW Using Multiples 3	Breaker Qty.	Length	Receptacles
PL8750M-06C							36"	**9-C19**
PL8731M-06C								48-C13
PL8733M-06C	30A	415V	17.2	34.4	**51.6**	6	72"	30-C13 & 12-C19
PL8734M-06C								18-C13 & 18-C19
PL8735M-06C								30-C19
PL8650M-06C							41"	**9-C19**
PL8606M-06C								42-C13
PL8607M-06C								36-C13 & 6-C19
PL8608M-06C	60A	208V	17.2	34.4	**51.6**	6	72"	24-C13 & 12-C19
PL8609M-06C								18-C13 & 18-C19
PL8621M-06C								30-C19
PL8801M-06C								45-C13
PL8803M-06C	60A	415V	34.5	**69.0**	103.5	9	72"	18-C13 & 18-C19
PL8804M-06C								**27-C19**
PL9003V-06C								**6-C13 & 18-C19**
PL9004V-06C							78"	18-C19
PL9005V-06C								27-C19
PL9011V-06C	100A	208V	28.8	**57.6**	86.4	9		45-C13
PL9013V-06C							88"	18-C13 & 18-C19
PL9014V-06C								27-C19
PL9102V-06C								**6-C13 & 15-C19**
PL9103V-06C							78"	15-C19
PL9104V-06C	100A	415V	**57.5**	115.0	172.5	15		21-C19
PL9112V-06C							88"	12-C13 & 15-C19
PL9113V-06C								27-C19
PL9151V-06XC							78"	18-C19
PL9162V-06XC	125A	415V	**71.9**	143.8	215.7	18	88"	**6-C13 & 18-C19**
PL9163V-06XC								24-C19

See rPDU Selector for a full offering. Models highlighted in green solve unique power requirements of Nvidia and other HPC servers. V versions monitor input power.

Vertical Stacking

Vertical stacking 36" and 41" rPDUs increases available power in a vertical footprint. Presented below:

- (6) 36" 30A 415V rPDUs.
- 17.2 kW each.
- 103.2kW in 6.6" width.
- 51.6kW redundant.
- 5+1 for AI applications.
- Angled whip reduces obstruction.

Power Ratings Table

For 100A to 125A Models.

POWER RATINGS TABLE					
AMPS	kW DERATED	BREAKER QTY	I LINE DERATED	I PHASE	I PHASE DERATED
DELTA 208/240V 3P+E WIRE (4)					
100A	28.8	9	80	58	48
125A	36.0	12	96	69	64
WYE 240/415V 3P+N+E WIRE (5)					
100A	57.5	15	80	100	80
125A	71.9	18	100	125	100

Intelligent Power Accessories

Advanced connectivity sensors and switching cords allows you to add environment monitoring or scalable switching capability when and if needed. Physically connect sensors that automatically register in the on-board software. Securely connect switching cords and join to rPDU with the simple push of a button.

PDU accessories for Monitored & Switched Ready models

DCW *Innovation Challenge 2024*
AFCOM   *Finalist*

Maintain rPDU reliability with each switching relay in cord versus 40+ relays in the rPDU.

ENVIROLOK

- 0.2C temperature & 2% Rh accuracy
- Daisy chain 4 sensors per PDU
- Magnetic or velcro attachment
- Only 1.4in x 1.4in x .81in size
- Low power over supplied cable
- Battery-less sensors

SWITCHLOK

- Add Switching if or when needed
- Switching relay in-line with cord
- Allows PDU to retain slim profile
- Allows PDU to maintain reliability
- Easily join PDUs for A/B switching

Patented switching technology

Advanced switching technology

Maintain reliability and flexibility. **PowerLOK Switched Ready Rack rPDUs** have relays removed from the rPDU to keep reliability high and the profile slim. Add switching cords only when or if needed.
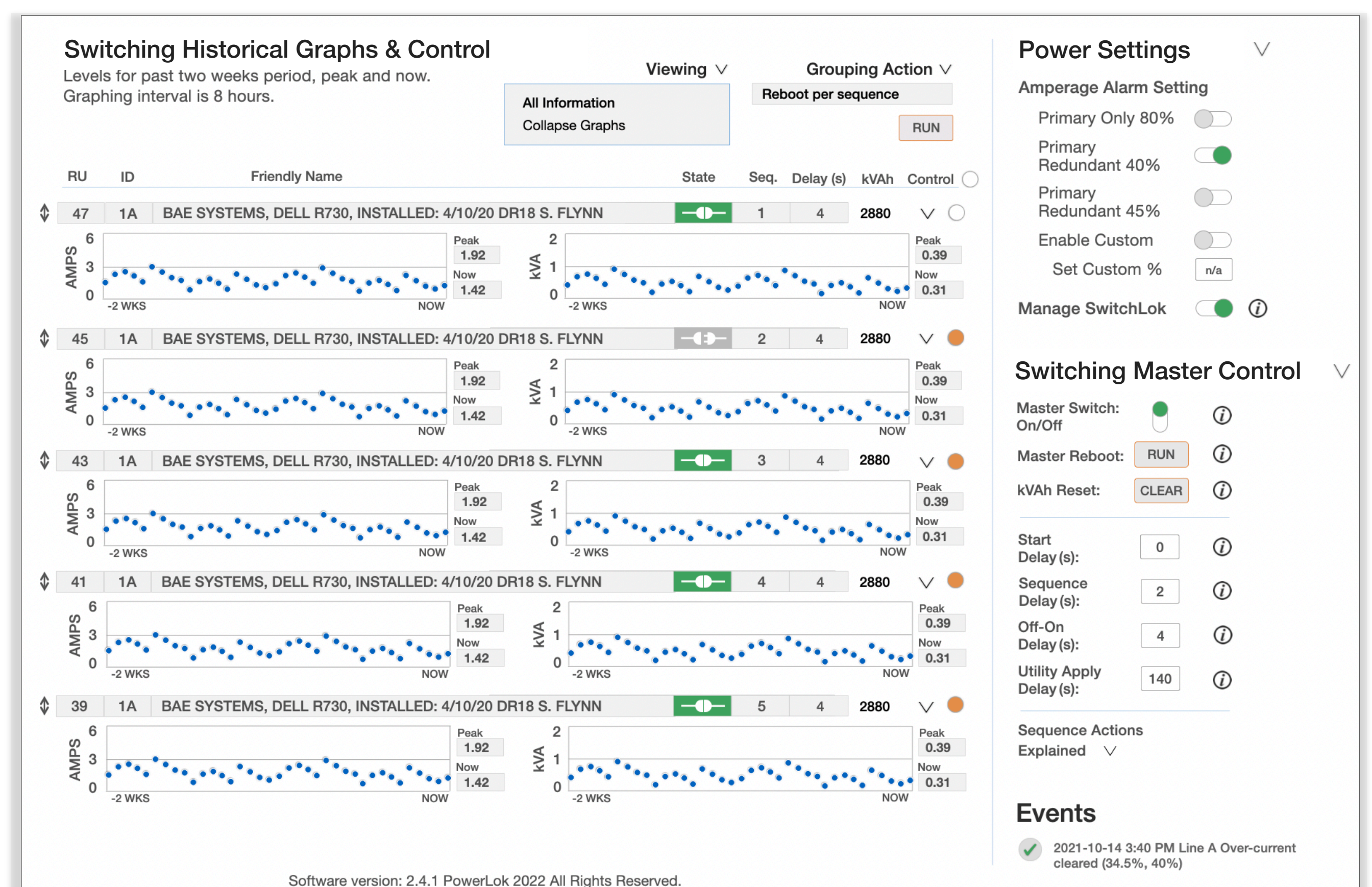
Adding PDU Switching Cords to PowerLOK:
To join, simply depress PDU switching cord button for 2 seconds and release when green LED changes from fast to slow flashing. Select JOIN in the Manage SwitchLOK window of the software.

Naming & Settings:
Once joined, you can enter a friendly name. Settings are done individually or performed for all joined switching cords at once. Join PDU B to PDU A in Admin for dual AC fed servers.

Ease of Use:
Reboot, on and off sequencing actions are explained in the software. Select all or select individually the switching cords you desire to perform an action with, then select RUN.

Switching Historical Graphs & Control
Levels for past two weeks period, peak and now.
Graphing interval is 8 hours.

Viewing ⌄   Grouping Action ⌄
All Information   Reboot per sequence
Collapse Graphs   RUN

RU	ID	Friendly Name	State	Seq.	Delay (s)	kVAh	Control
47	1A	BAE SYSTEMS, DELL R730, INSTALLED: 4/10/20 DR18 S. FLYNN	⊶	1	4	2880	⌄ ○
45	1A	BAE SYSTEMS, DELL R730, INSTALLED: 4/10/20 DR18 S. FLYNN	⊶	2	4	2880	⌄ ●
43	1A	BAE SYSTEMS, DELL R730, INSTALLED: 4/10/20 DR18 S. FLYNN	⊶	3	4	2880	⌄ ○
41	1A	BAE SYSTEMS, DELL R730, INSTALLED: 4/10/20 DR18 S. FLYNN	⊶	4	4	2880	⌄ ○
39	1A	BAE SYSTEMS, DELL R730, INSTALLED: 4/10/20 DR18 S. FLYNN	⊶	5	4	2880	⌄ ●

Peak 1.92 Now 1.42 (AMPS)   Peak 0.39 Now 0.31 (kVA)

Power Settings ⌄

Amperage Alarm Setting
- Primary Only 80%
- Primary Redundant 40% ●
- Primary Redundant 45%
- Enable Custom
- Set Custom %   n/a

Manage SwitchLok ●

Switching Master Control ⌄

Master Switch: On/Off	●	ⓘ
Master Reboot:	RUN	ⓘ
kVAh Reset:	CLEAR	ⓘ
Start Delay (s):	0	ⓘ
Sequence Delay (s):	2	ⓘ
Off-On Delay (s):	4	ⓘ
Utility Apply Delay (s):	140	ⓘ

Sequence Actions Explained ⌄

Events
✓ 2021-10-14 3:40 PM Line A Over-current cleared (34.5%, 40%)

Software version: 2.4.1 PowerLok 2022 All Rights Reserved.

Configure, update and manage multiple devices on a network

GV-Power Device Manager (PDM) is a free and comprehensive application for securely and efficiently configuring and maintaining multiple devices on the network.

Discover Devices:
All PowerLOK Rack PDUs on the network with the same credentials will be searched for and discovered by IP addresses.

Configuration Updates:
All admin, rack PDU settings, environment settings and switching settings are updated. IP addressing and rack PDU friendly name are not updated.

Ease of Use:
PDM provides quick links to manage all your devices. The most up to date rPDU device firmware in loaded into PDM. Simply enter an IP range or specific address. Copy a desired rack PDU configuration to your clipboard and paste into PDM. Select Push Updates.

GV-Power Device Manager

MANAGE   UPDATE   SUPPORT   LOGOUT

Firmware Selection   **Configuration Selection** ⓘ
- Power Device Firmware   Power Device Configuration
- SwitchLOK Firmware   ...

Upgrade Progress

Push All Updates   Cancel Updates

Device Credentials ⓘ
User Name
Password
Upgrade all devices with the same User Name and Password.

Enter IP Address ⓘ
Enter Individual Address
Add IP Address to List

IP Discovery Record ⓘ
○ Select All

Discover Devices   Clear All Addresses

Discover by IP Range ⓘ
From
To
○ Slow Scan ○ Fast Scan ⓘ
○ Update immediately after discovery is complete. ⓘ

PDM Software Version: 2.0.1 2024 All Rights Reserved

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