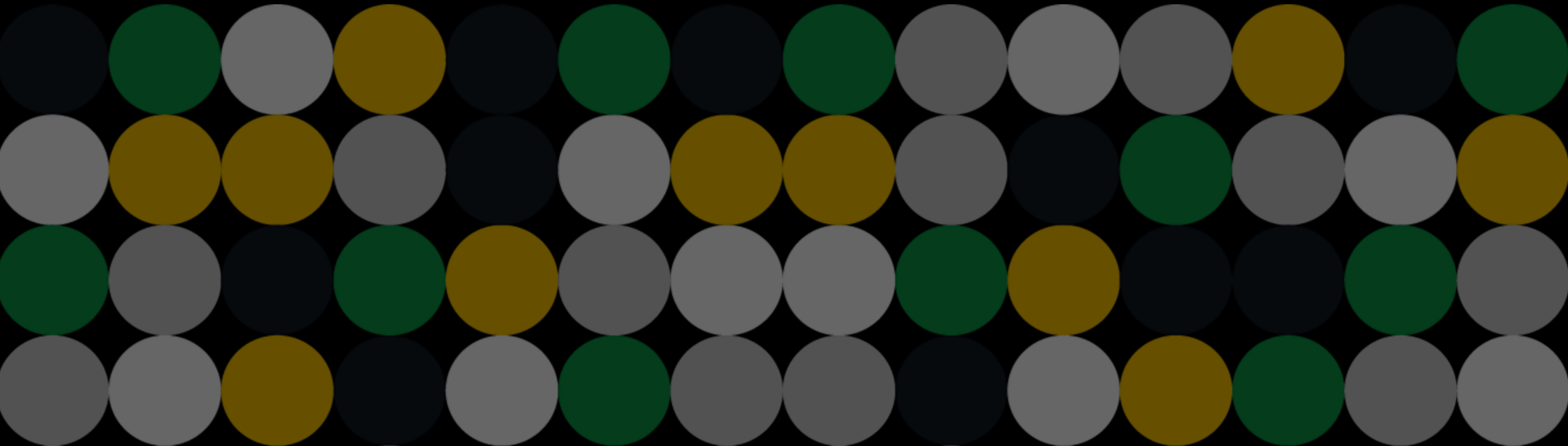
ENERTECT®

Battery Monitoring . UPS Monitoring . Power Monitoring



MONITORING WITH CONFIDENCE.

Enertect Monitoring Systems allow you to maintain a safe and secure system with real-time monitoring which will minimize the probability of any failures and optimize the service life of your assets.

- HQ in Singapore 15 Locations worldwide
- In-house development & service team
- avoid rejection of warranty claims
- comply with IEEE 1188 maintenance practices
- generate performance reports
- comply with warranty guidelines of major battery manufacturers
- evaluate voltage & temperature trends

ENERTECT 2020

ENERTECT 2015

CELLTRAK 2009

ENERTECTMAX
User Experience Demo

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BATTERY MONITORING SYSTEMS (BMS)

What are your **PAIN POINTS ?**

thermal runaway

unforeseen costs

safety compromise

premature battery aging

installation integrity

improper maintenance

travel restrictions

offshore/remote location

Hazardous site location

sensitive site entry

Unable to use conventional maintenance methods

"monitor, correct, detect and prevent failures before they occur"

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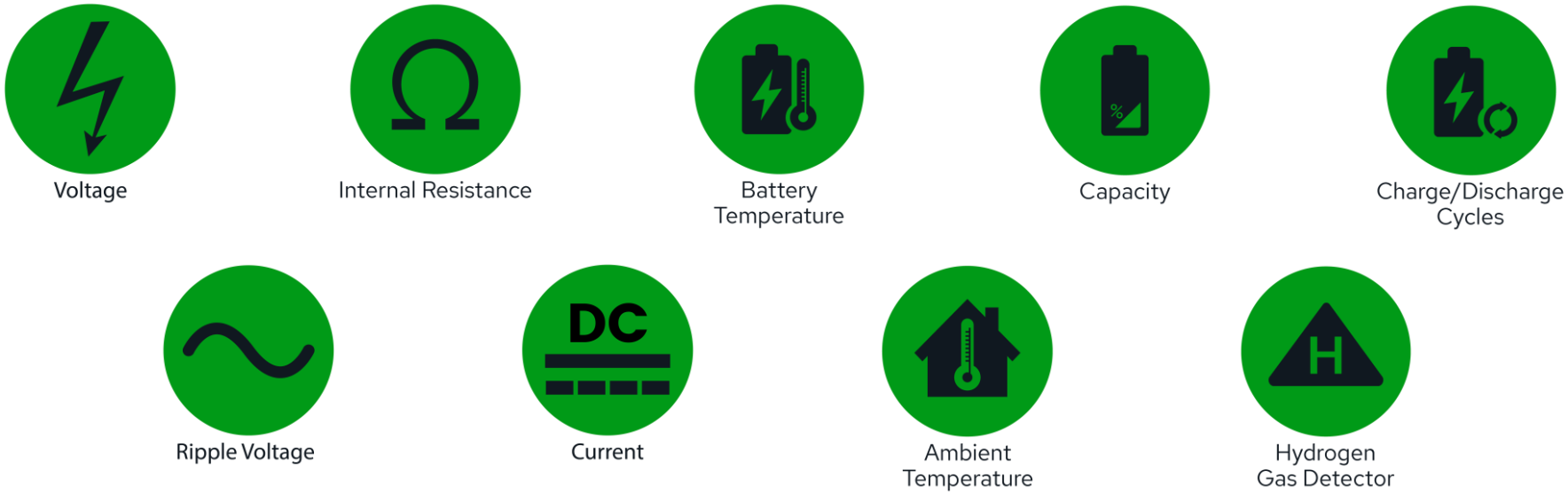
KEEP TRACK OF EVERYTHING THAT IS IMPORTANT.

An innovative battery monitoring system for large scale technology installations where power and system availability are critical for successful business operations.
It is a powerful tool for mitigating and preventing costly downtime due to unexpected system failure.



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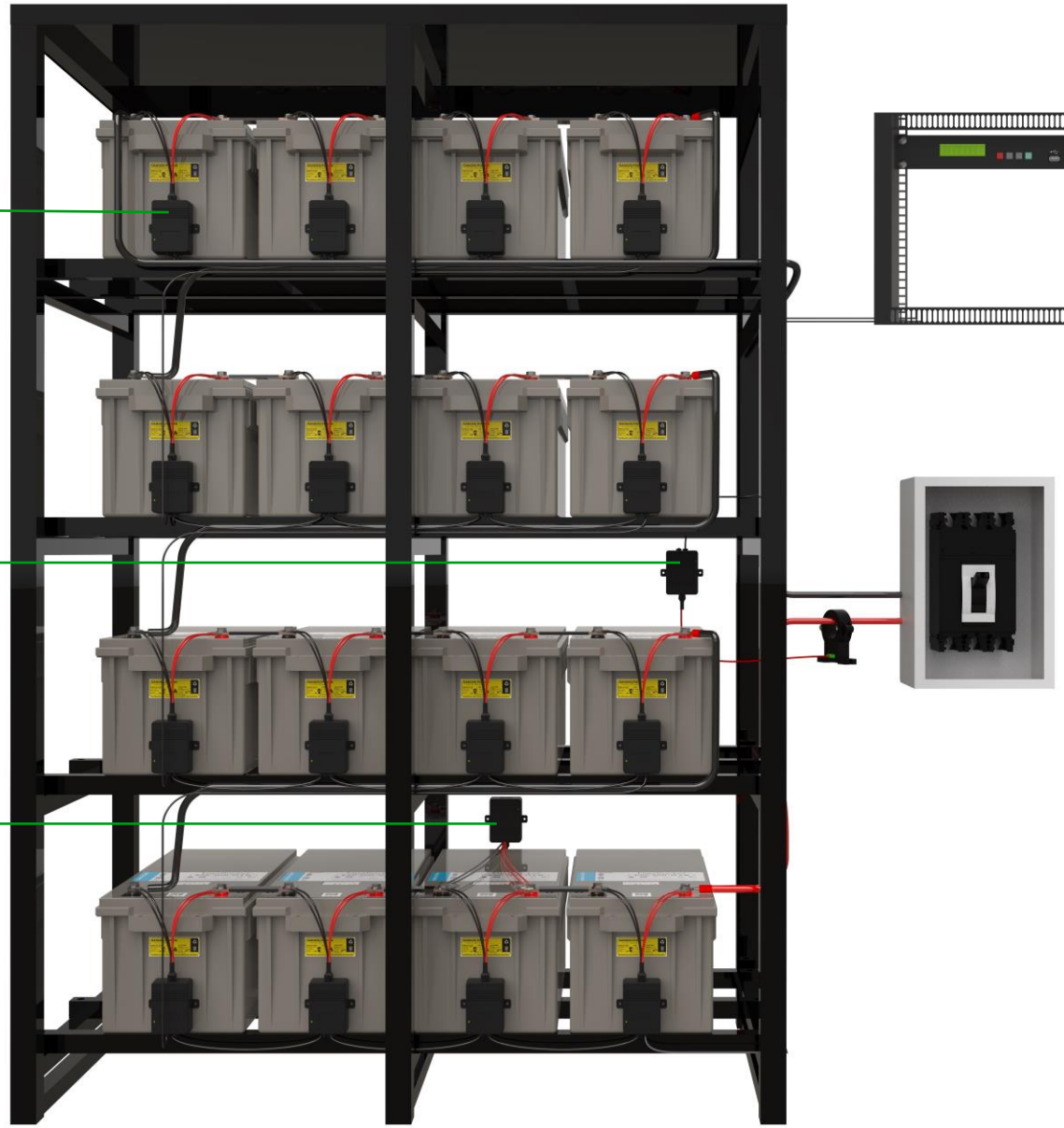
BATTERY SENSOR

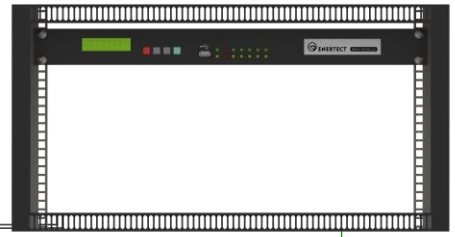
- battery voltage
- battery temperature
- battery IR

STRING SENSOR

- string voltage
- string current
- string temperature

RIPPLE VOLTAGE SENSOR





MAIN MODULE

- dedicated display
- alerts & notifications
- modbus [TCP/IP-RS485]

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Connect

TCP / IP
RS485

Communicate

MODBUS
SNMP

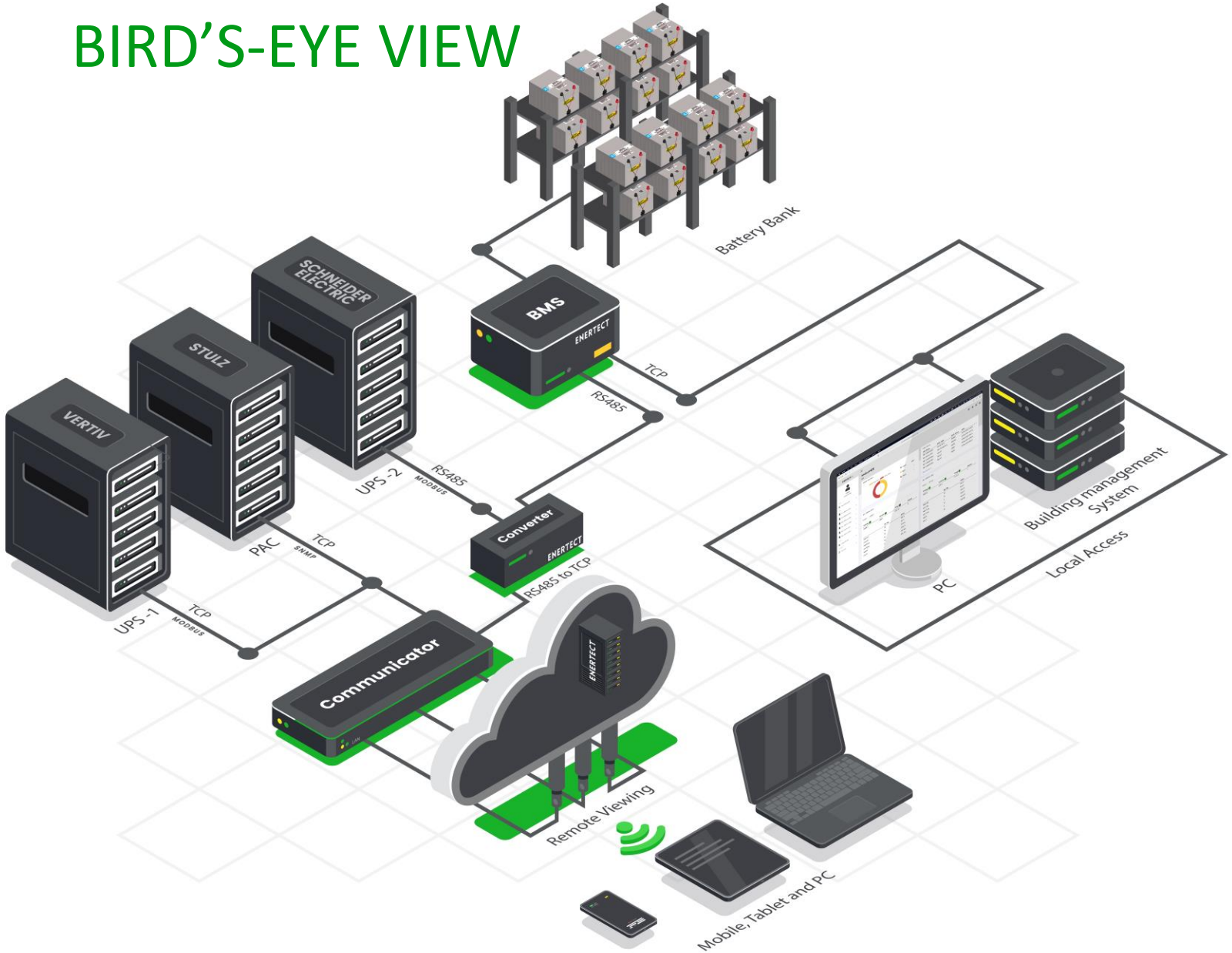
Integrate

Building Management Systems
SCADA Systems
UPS Systems
Third Party Systems

Alerts & reports

Mobile / SMS notification
Email Notification
Periodic Performance Reports

BIRD'S-EYE VIEW



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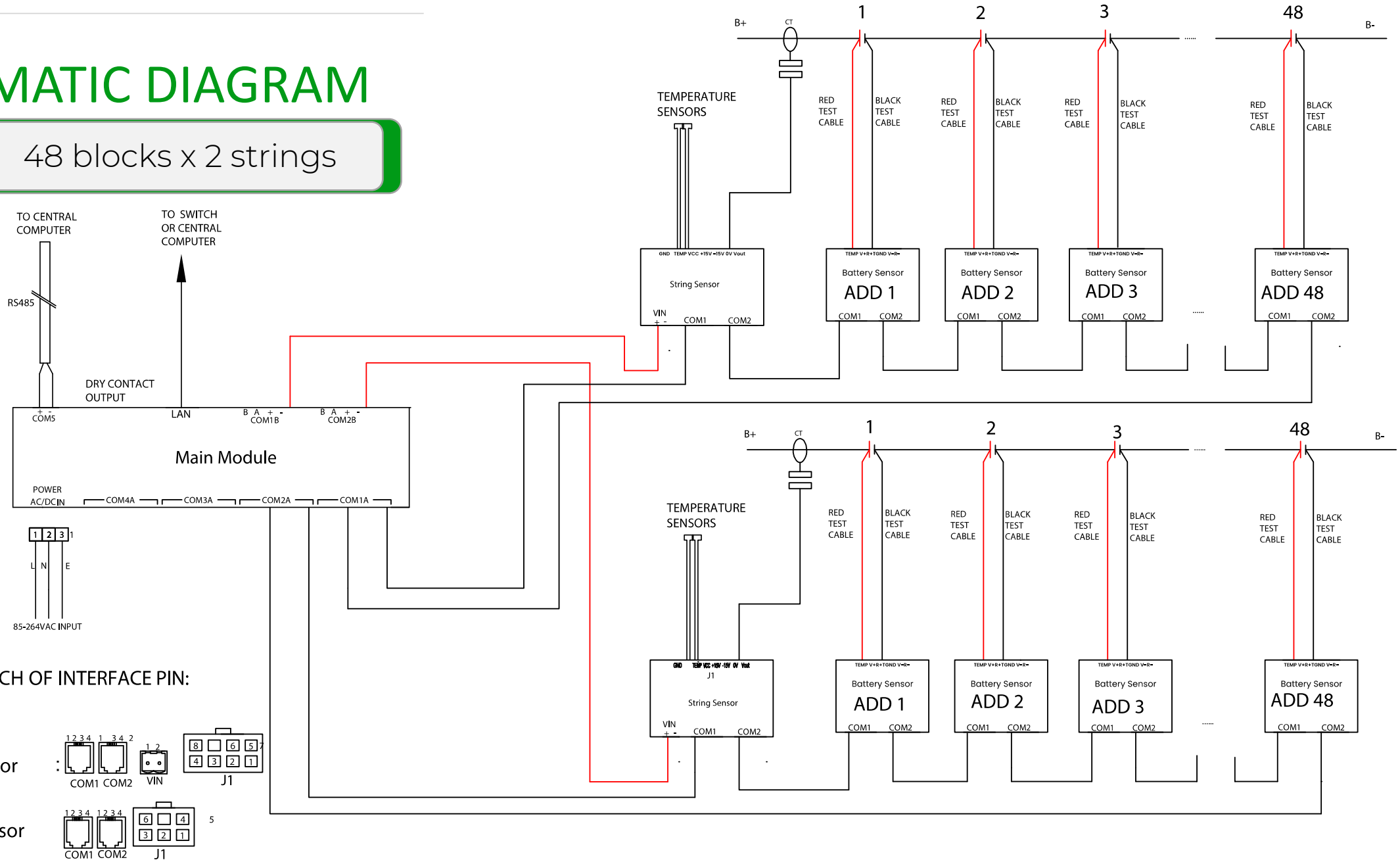
SCHEMATIC DIAGRAM

48 blocks x 2 strings



SKETCH OF INTERFACE PIN:

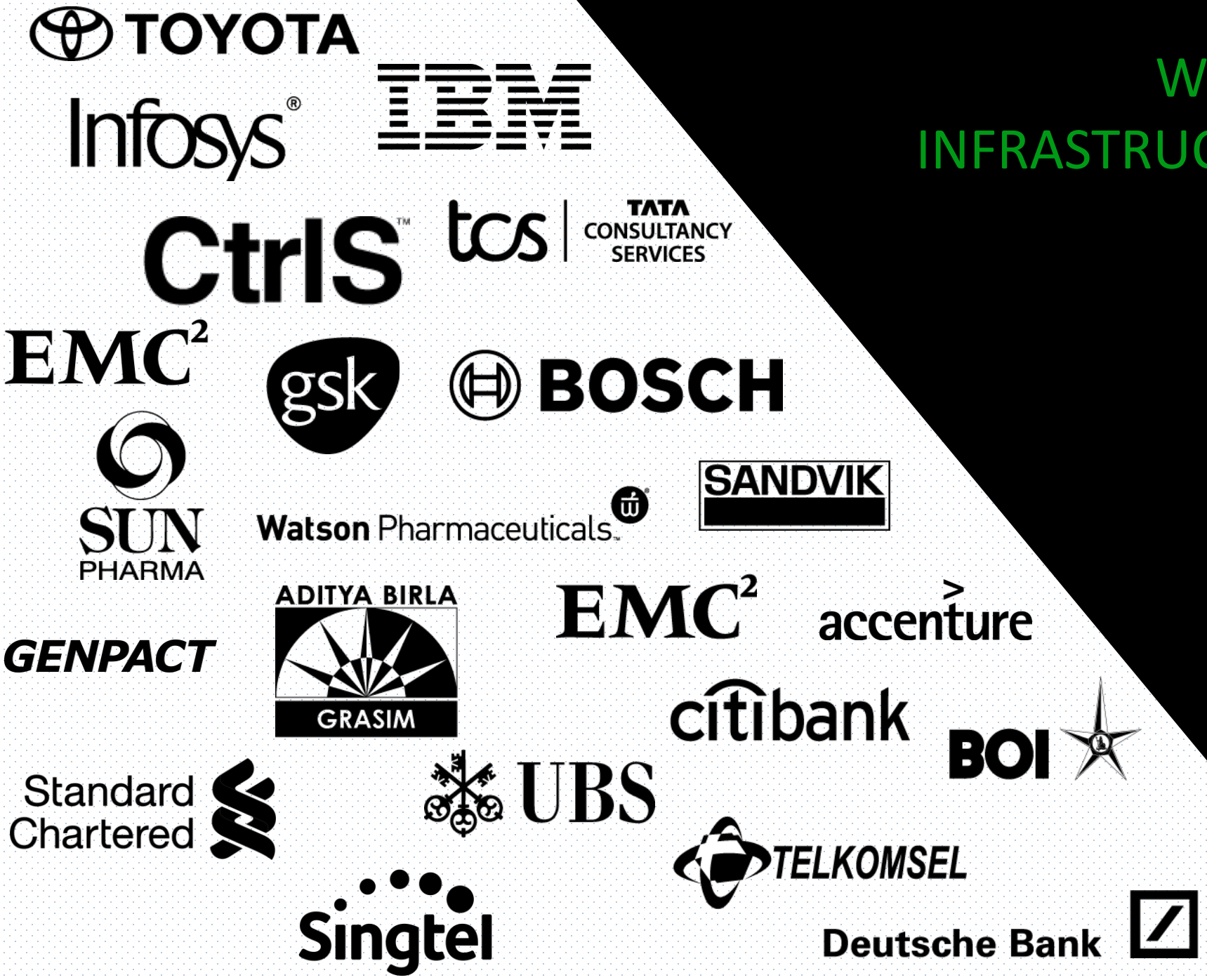
String Sensor :

Battery Sensor

ENERTECTMAX

full-fledged all features battery monitoring

ENERTECT - V	ENERTECT - VR	ENERTECT - VRT	ENERTECT - VRC	ENERTECT - U
• Voltage • Current • Ambient Temperature	• Voltage • Current • Ambient Temperature • Internal Resistance	• Voltage • Current • Ambient Temperature • Internal Resistance • Battery Temperature	• Voltage • Current • Ambient Temperature • Internal Resistance • Capacity	• Voltage • Current • Ambient Temperature • Internal Resistance • Battery Temperature • Capacity • Hydrogen Gas Detection • Charge/Discharge Cycle • Ripple Voltage



WE GUARANTEE YOUR INFRASTRUCTURE REMAIN UP & RUNNING

comply with IEEE 1188 maintenance practices

Comply with warranty guidelines of major battery manufacturers

avoid rejection of warranty claims

evaluate voltage & temperature trends period

generate performance reports

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User Experience Demo

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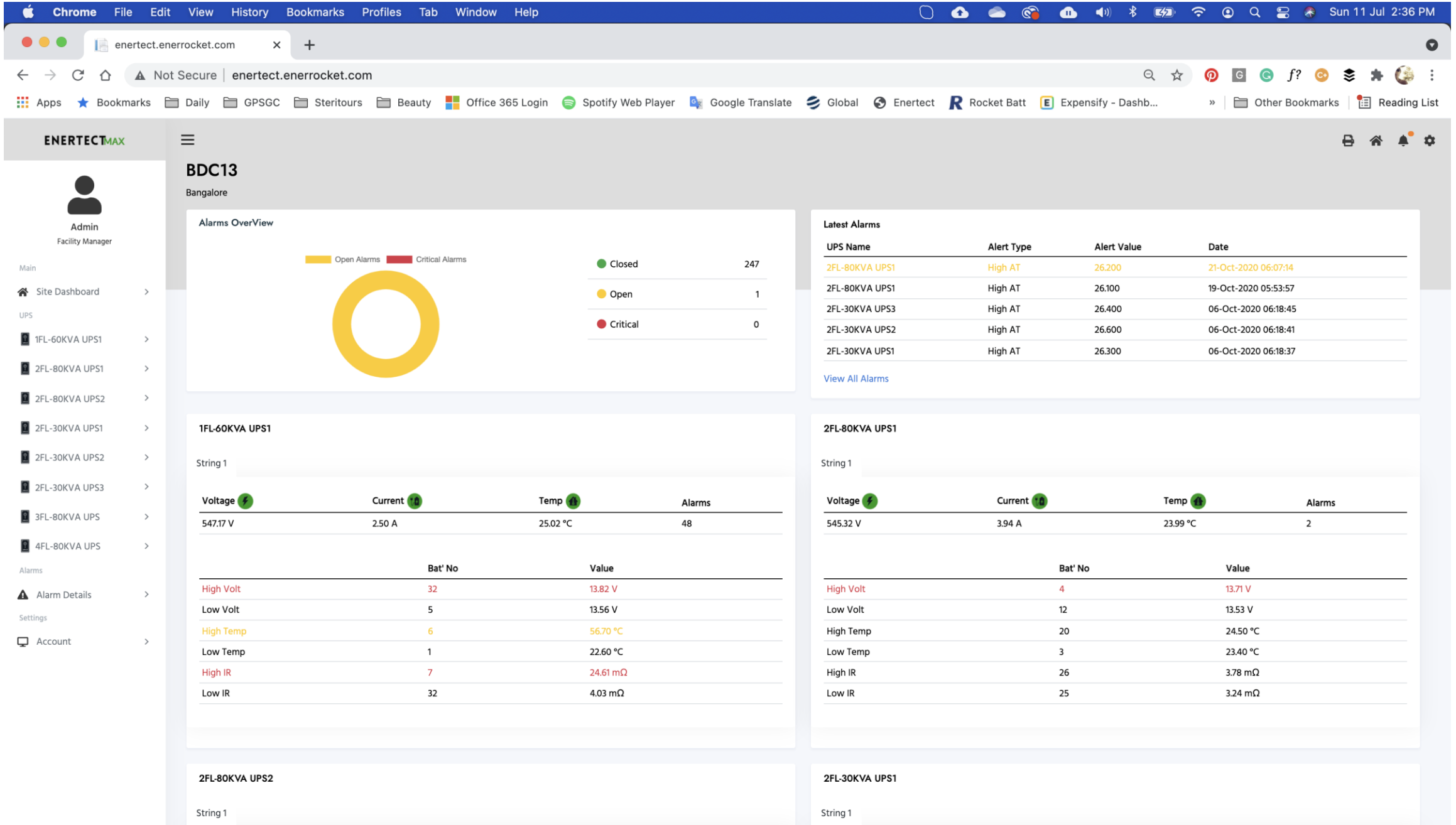
SOFTWARE SCREENSHOTS – SITE DASHBOARD



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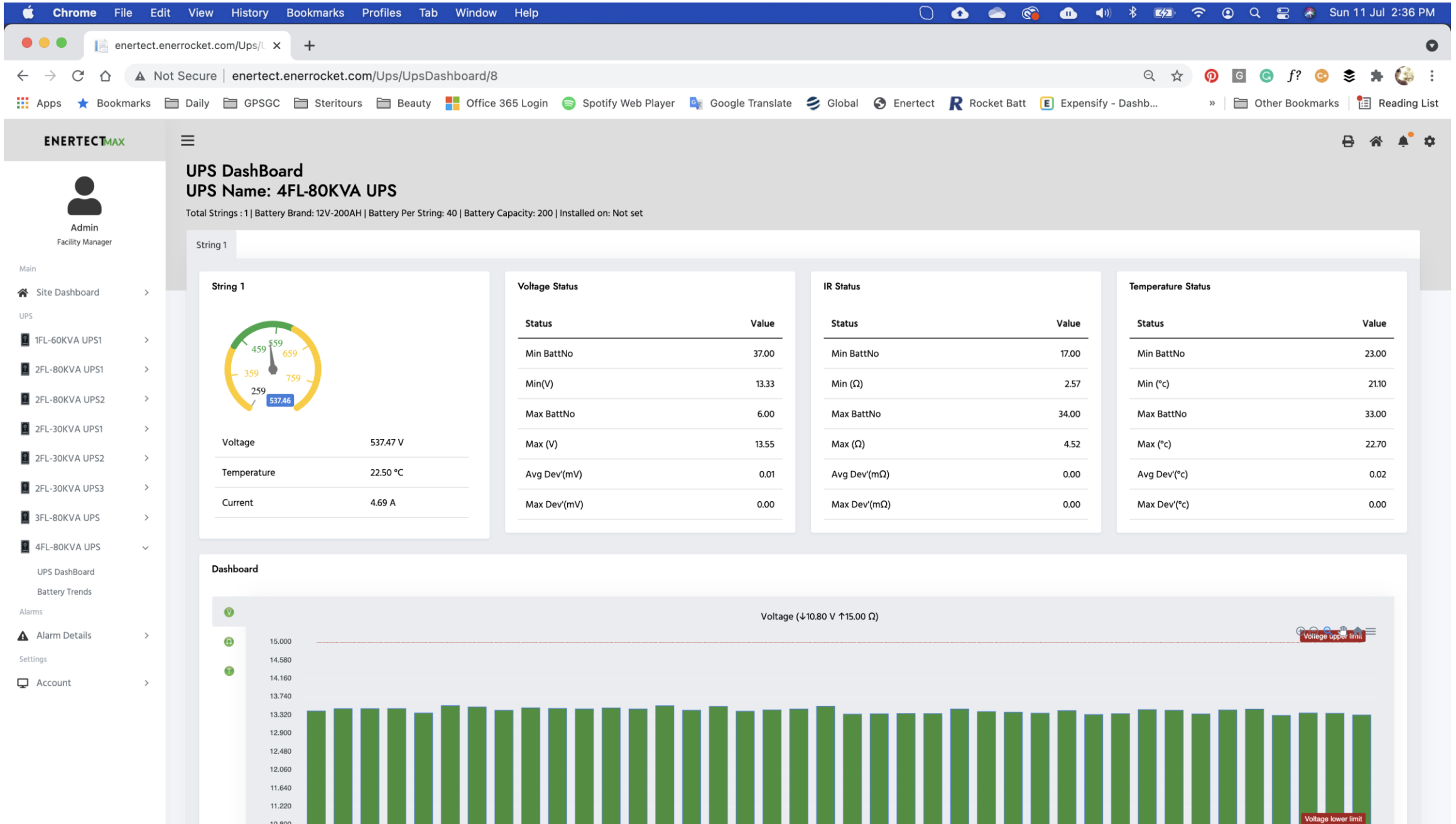
SOFTWARE SCREENSHOTS – UPS DASHBOARD



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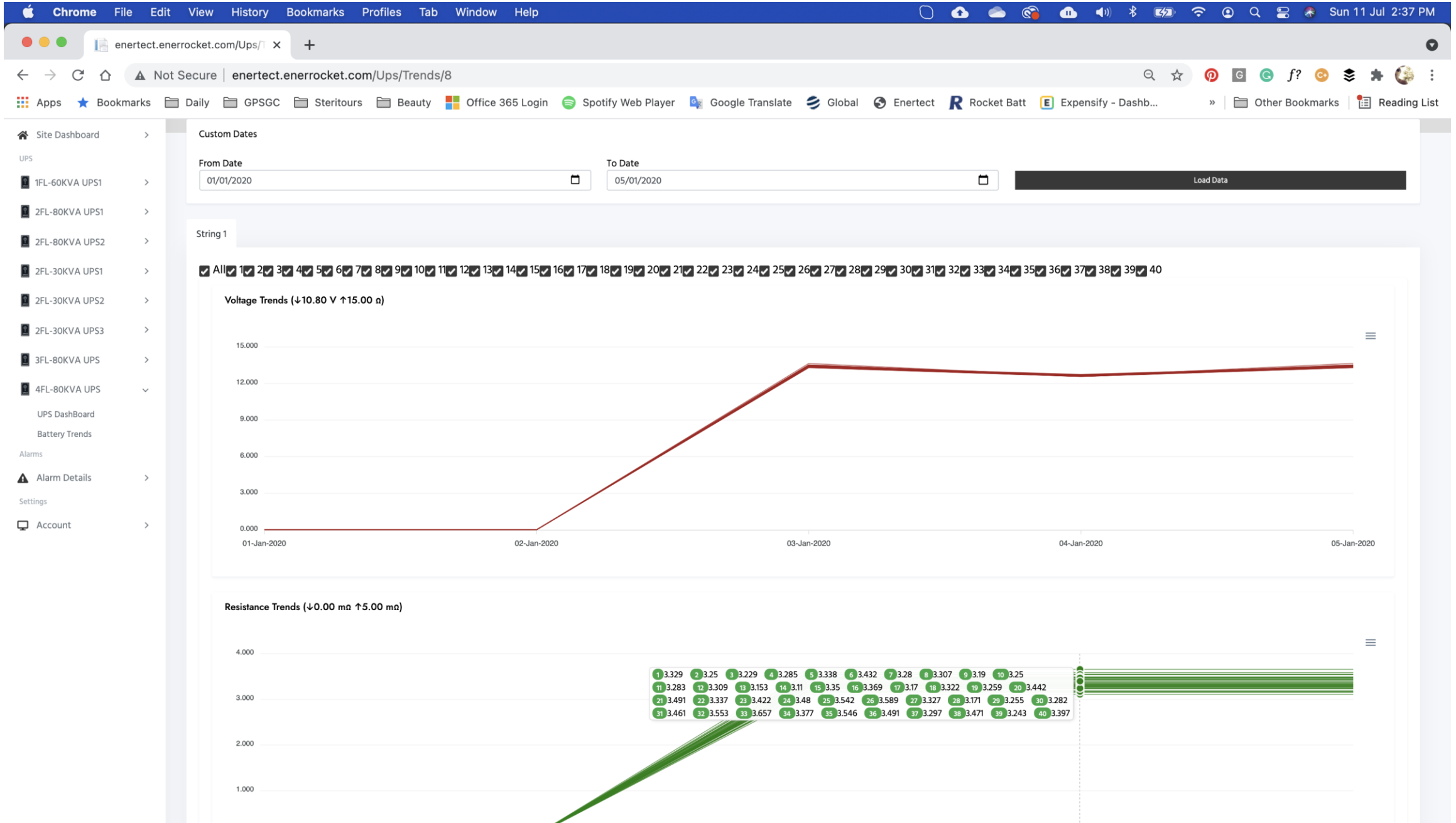
SOFTWARE SCREENSHOTS – BATTERY TRENDS



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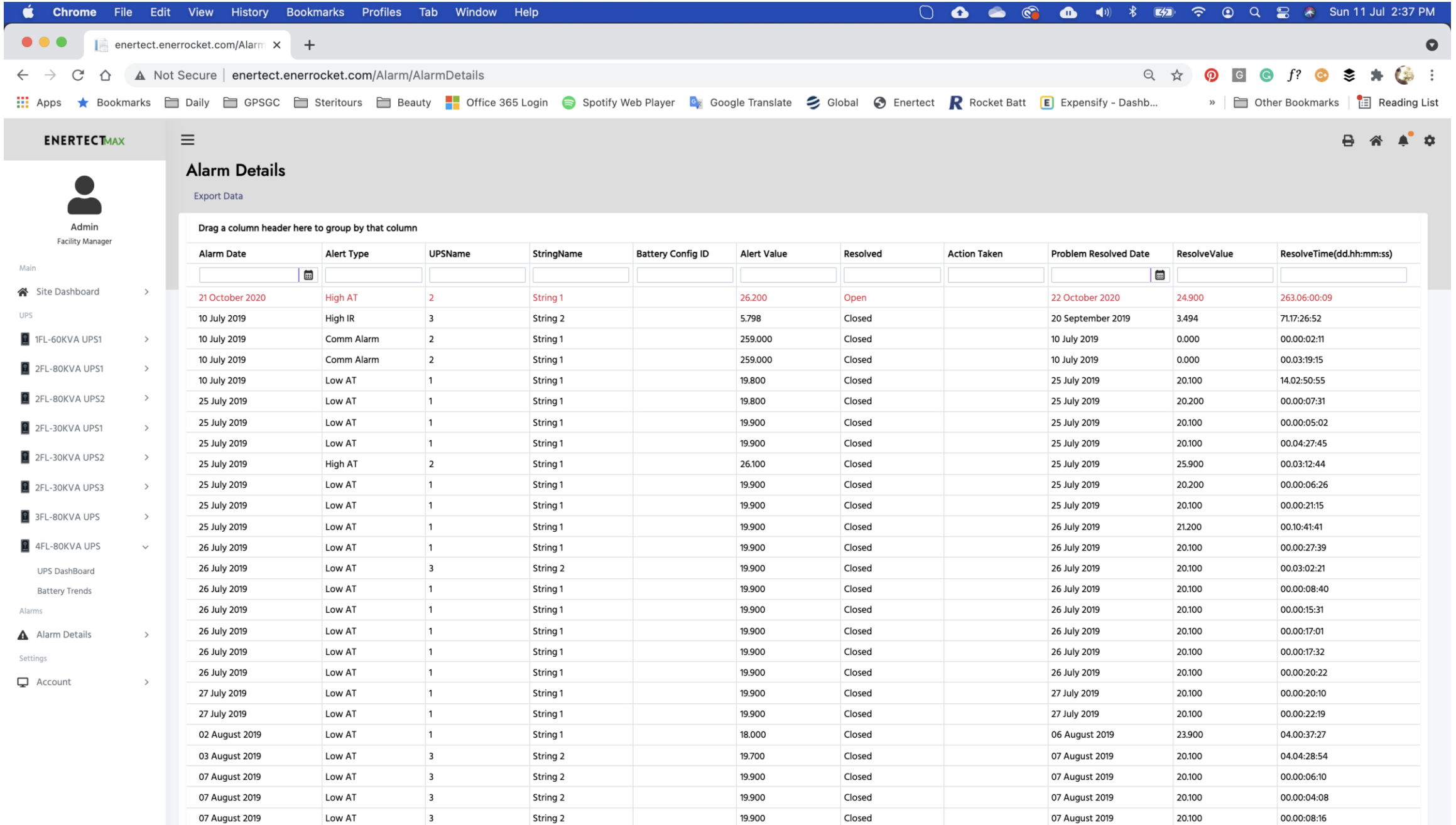
SOFTWARE SCREENSHOTS – ALARM DETAILS



Alarm Date	Alert Type	UPSName	StringName	Battery Config ID	Alert Value	Resolved	Action Taken	Problem Resolved Date	ResolveValue	ResolveTime(dd.hh:mm:ss)
21 October 2020	High AT	2	String 1		26.200	Open		22 October 2020	24.900	263.06:00:09
10 July 2019	High IR	3	String 2		5.798	Closed		20 September 2019	3.494	71.17:26:52
10 July 2019	Comm Alarm	2	String 1		259.000	Closed		10 July 2019	0.000	00.00:02:11
10 July 2019	Comm Alarm	2	String 1		259.000	Closed		10 July 2019	0.000	00.03:19:15
10 July 2019	Low AT	1	String 1		19.800	Closed		25 July 2019	20.100	14.02:50:55
25 July 2019	Low AT	1	String 1		19.800	Closed		25 July 2019	20.200	00.00:07:31
25 July 2019	Low AT	1	String 1		19.900	Closed		25 July 2019	20.100	00.00:05:02
25 July 2019	Low AT	1	String 1		19.900	Closed		25 July 2019	20.100	00.04:27:45
25 July 2019	High AT	2	String 1		26.100	Closed		25 July 2019	25.900	00.03:12:44
25 July 2019	Low AT	1	String 1		19.900	Closed		25 July 2019	20.200	00.00:06:26
25 July 2019	Low AT	1	String 1		19.900	Closed		25 July 2019	20.100	00.00:21:15
25 July 2019	Low AT	1	String 1		19.900	Closed		26 July 2019	21.200	00.10:41:41
26 July 2019	Low AT	1	String 1		19.900	Closed		26 July 2019	20.100	00.00:27:39
26 July 2019	Low AT	3	String 2		19.900	Closed		26 July 2019	20.100	00.03:02:21
26 July 2019	Low AT	1	String 1		19.900	Closed		26 July 2019	20.100	00.00:08:40
26 July 2019	Low AT	1	String 1		19.900	Closed		26 July 2019	20.100	00.00:15:31
26 July 2019	Low AT	1	String 1		19.900	Closed		26 July 2019	20.100	00.00:17:01
26 July 2019	Low AT	1	String 1		19.900	Closed		26 July 2019	20.100	00.00:17:32
26 July 2019	Low AT	1	String 1		19.900	Closed		26 July 2019	20.100	00.00:20:22
27 July 2019	Low AT	1	String 1		19.900	Closed		27 July 2019	20.100	00.00:20:10
27 July 2019	Low AT	1	String 1		19.900	Closed		27 July 2019	20.100	00.00:22:19
02 August 2019	Low AT	1	String 1		18.000	Closed		06 August 2019	23.900	04.00:37:27
03 August 2019	Low AT	3	String 2		19.700	Closed		07 August 2019	20.100	04.04:28:54
07 August 2019	Low AT	3	String 2		19.900	Closed		07 August 2019	20.100	00.00:06:10
07 August 2019	Low AT	3	String 2		19.900	Closed		07 August 2019	20.100	00.00:04:08
07 August 2019	Low AT	3	String 2		19.900	Closed		07 August 2019	20.100	00.00:08:16

THANK YOU

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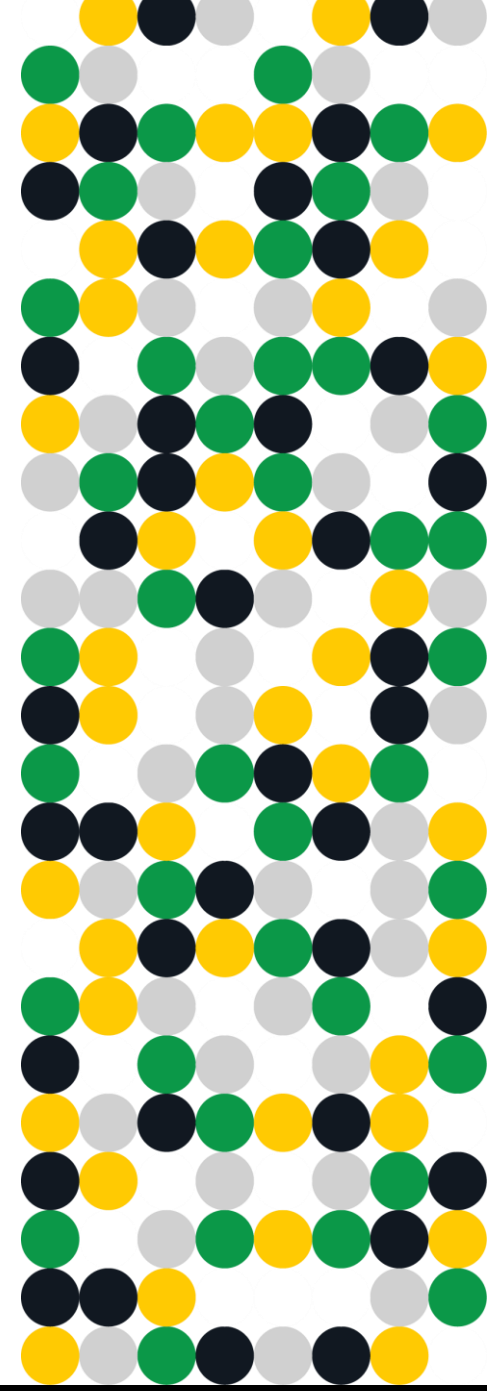

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