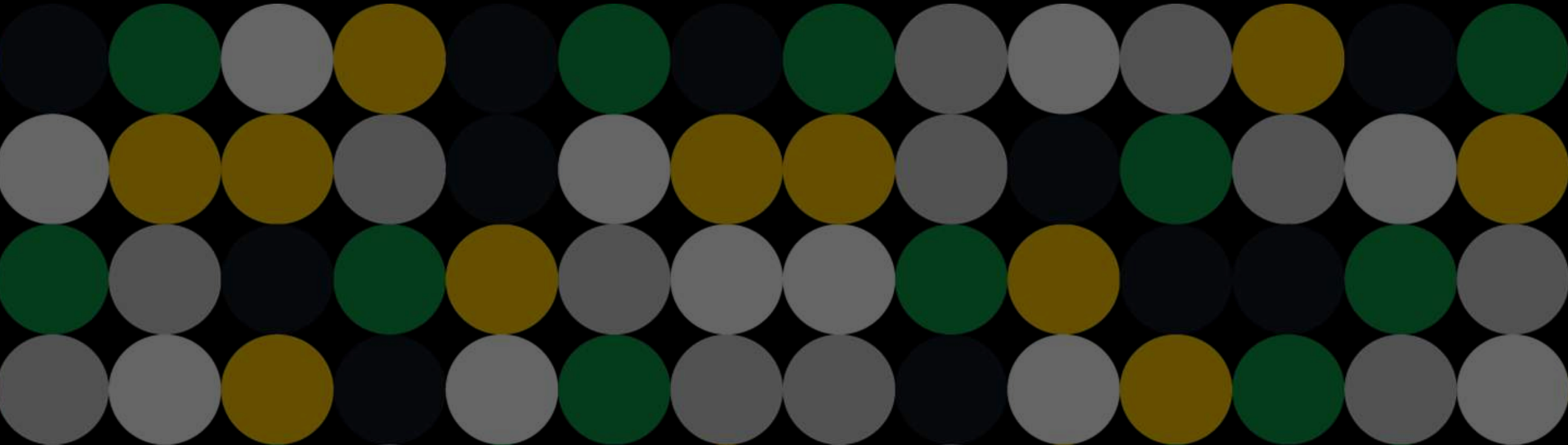


ENERTECT[®]

Battery Monitoring . UPS Monitoring . Power Monitoring



MONITORING WITH CONFIDENCE.

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 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.

ENERTECT® ▲ 2020



ENERTECT ▲ 2015

CELLTRAK ▲ 2009

ENERTECT^{MAX}
User Experience Demo >>>



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”*



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.



Voltage



Internal Resistance



Battery
Temperature



Capacity



Charge/Discharge
Cycles



Ripple Voltage



Current



Ambient
Temperature



Hydrogen
Gas Detector



BATTERY SENSOR

- battery voltage
- battery temperature
- battery IR

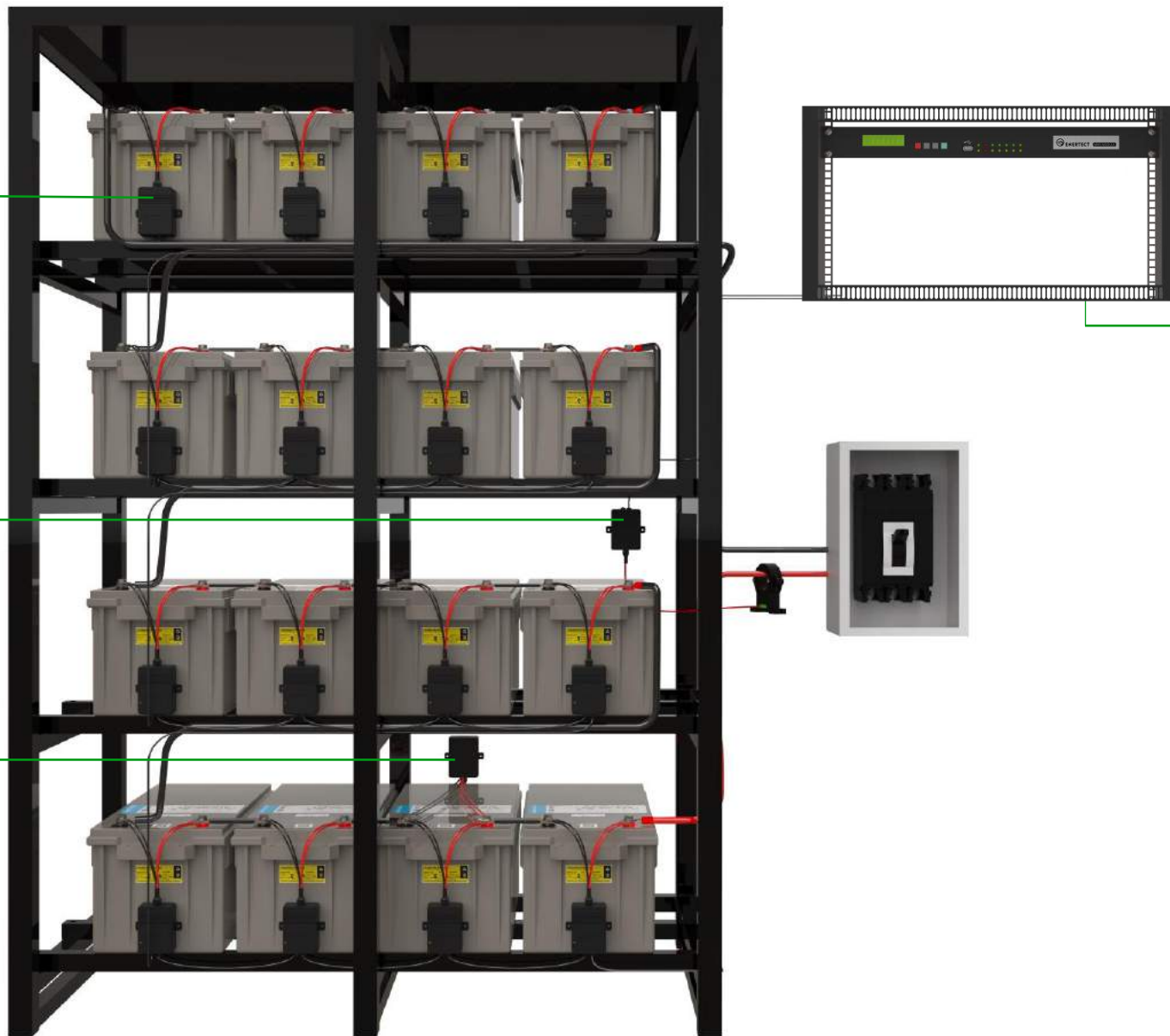
STRING SENSOR

- string voltage
- string current
- string temperature

RIPPLE VOLTAGE SENSOR

MAIN MODULE

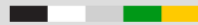
- dedicated display
- alerts & notifications
- modbus [TCP/IP-RS485]



ENERTECT^{MAX}

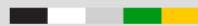


Connect



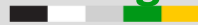
TCP / IP
RS485

Communicate



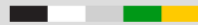
MODBUS
SNMP

Integrate



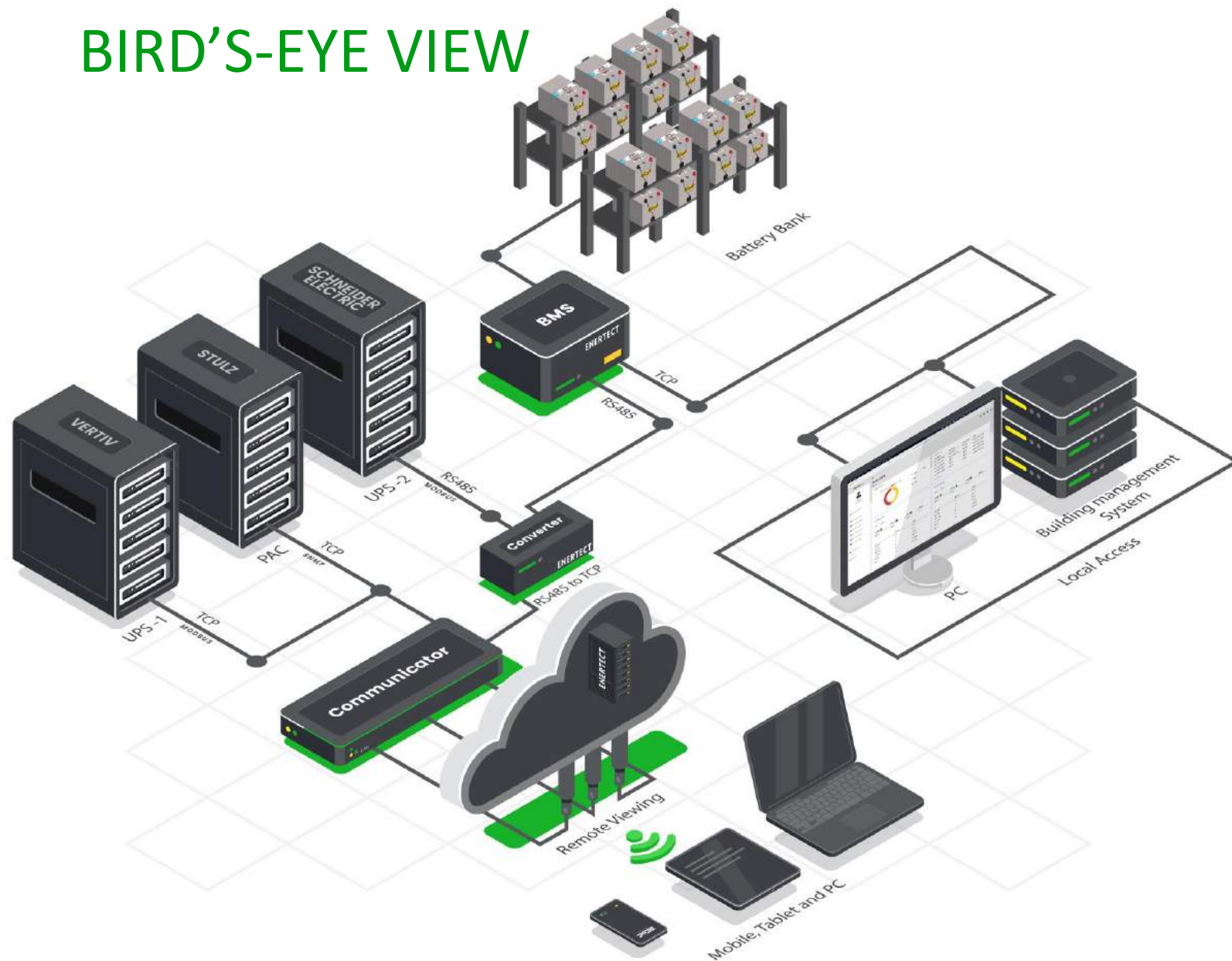
Building Management Systems
SCADA Systems
UPS Systems
Third Party Systems

Alerts & reports



Mobile / SMS notification
Email Notification
Periodic Performance Reports

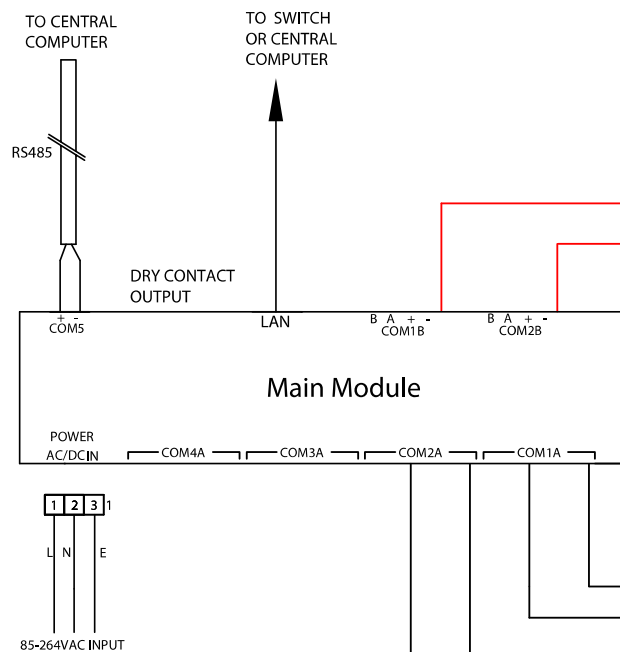
BIRD'S-EYE VIEW





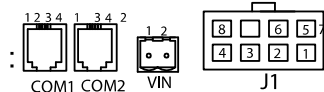
SCHEMATIC DIAGRAM

48 blocks x 2 strings

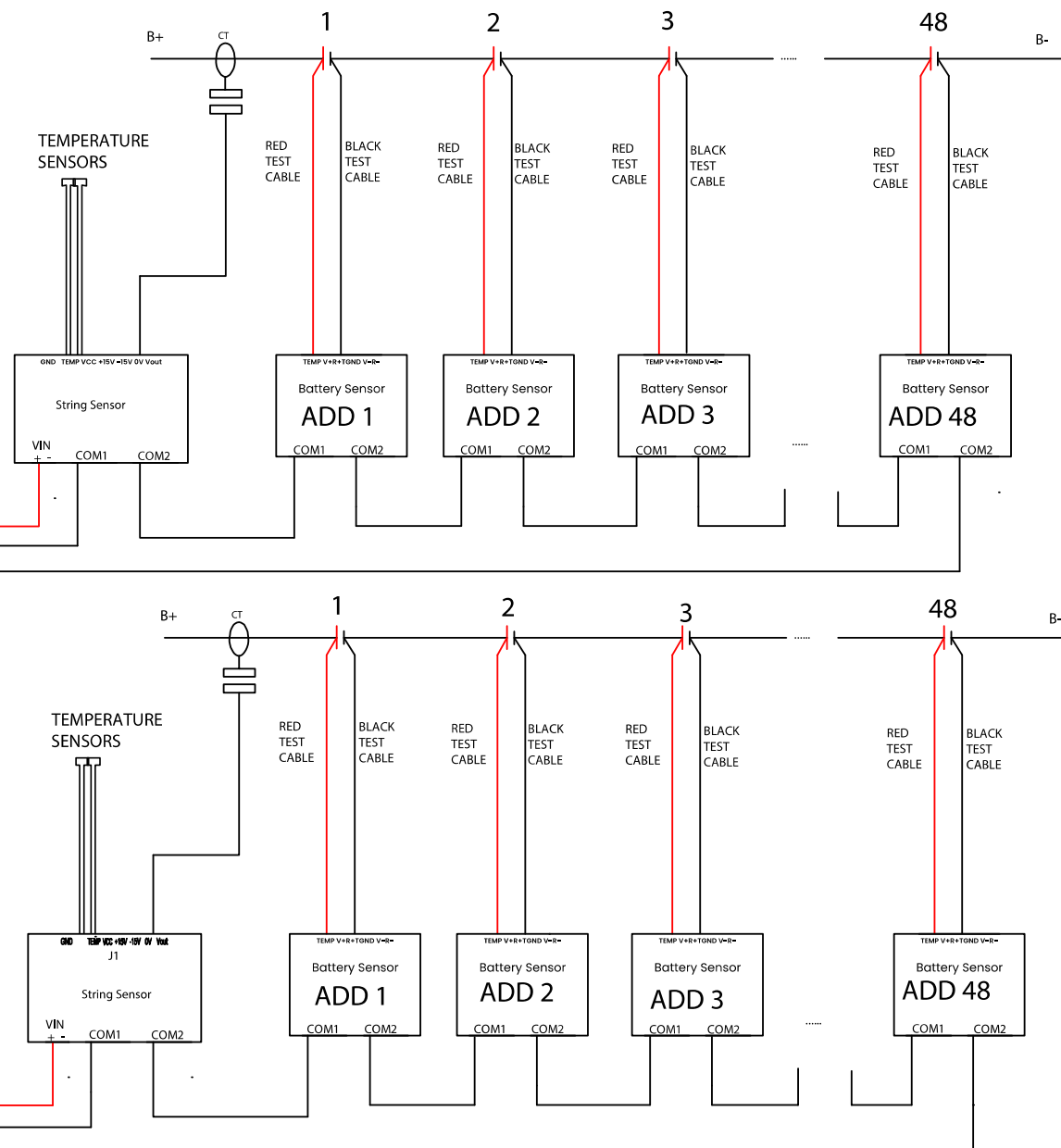
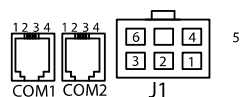


SKETCH OF INTERFACE PIN:

String Sensor



Battery Sensor





full-fledged all features battery monitoring

ENERTECT - V

- Voltage
- Current
- Ambient Temperature

ENERTECT - VR

- Voltage
- Current
- Ambient Temperature
- Internal Resistance

ENERTECT - VRT

- Voltage
- Current
- Ambient Temperature
- Internal Resistance
- Battery Temperature

ENERTECT - VRC

- Voltage
- Current
- Ambient Temperature
- Internal Resistance
- Capacity

ENERTECT - U

- Voltage
- Current
- Ambient Temperature
- Internal Resistance
- Battery Temperature
- Capacity
- Hydrogen Gas Detection
- Charge/Discharge Cycle
- Ripple Voltage

 **TOYOTA**

Infosys®

IBM

CtrlS™

tcs

**TATA
CONSULTANCY
SERVICES**

EMC²

gsk



BOSCH



**SUN
PHARMA**

Watson Pharmaceuticals™



SANDVIK

ADITYA BIRLA



GRASIM

EMC²

accenture

GENPACT

citibank

BOI



**Standard
Chartered**



UBS



TELKOMSEL

Singtel

Deutsche Bank



**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

ENERTECTMAX
User Experience Demo >>>

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Main

- Site Dashboard
- UPS
 - 1FL-60KVA UPS1
 - 2FL-80KVA UPS1
 - 2FL-80KVA UPS2
 - 2FL-30KVA UPS1
 - 2FL-30KVA UPS2
 - 2FL-30KVA UPS3
 - 3FL-80KVA UPS
 - 4FL-80KVA UPS
- Alarms
 - Alarm Details
- Settings
- Account

BDC13
Bangalore

Alarms OverView

Open Alarms Critical Alarms

Closed 247

Open 1

Critical 0

Latest Alarms

UPS Name	Alert Type	Alert Value	Date
2FL-80KVA UPS1	High AT	26.200	21-Oct-2020 06:07:14
2FL-80KVA UPS1	High AT	26.100	19-Oct-2020 05:53:57
2FL-30KVA UPS3	High AT	26.400	06-Oct-2020 06:18:45
2FL-30KVA UPS2	High AT	26.600	06-Oct-2020 06:18:41
2FL-30KVA UPS1	High AT	26.300	06-Oct-2020 06:18:37

[View All Alarms](#)

1FL-60KVA UPS1

String 1

Voltage	Current	Temp	Alarms
547.17 V	2.50 A	25.02 °C	48

	Bat' No	Value
High Volt	32	13.82 V
Low Volt	5	13.56 V
High Temp	6	56.70 °C
Low Temp	1	22.60 °C
High IR	7	24.61 mΩ
Low IR	32	4.03 mΩ

2FL-80KVA UPS1

String 1

Voltage	Current	Temp	Alarms
545.32 V	3.94 A	23.99 °C	2

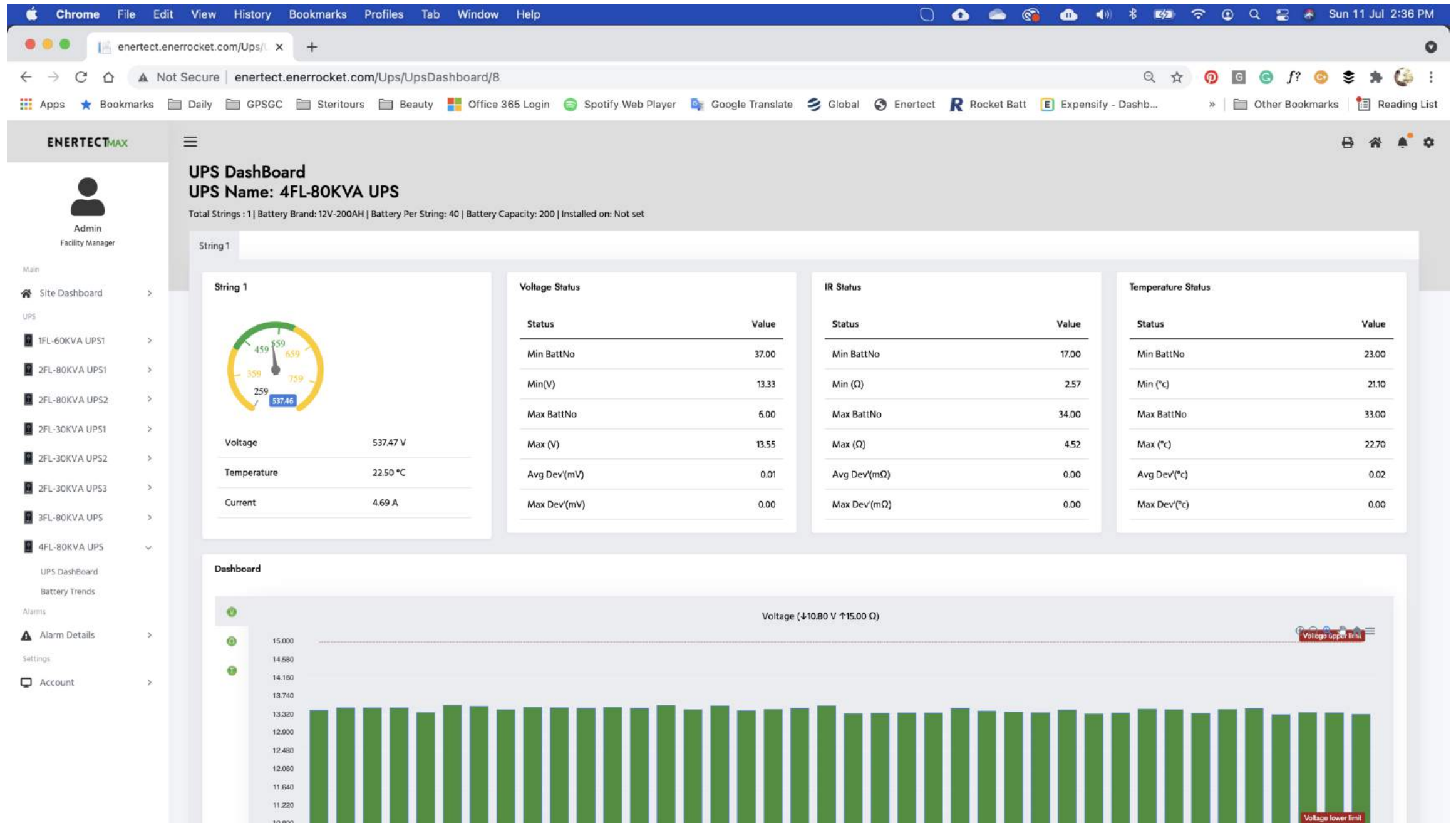
	Bat' No	Value
High Volt	4	13.71 V
Low Volt	12	13.53 V
High Temp	20	24.50 °C
Low Temp	3	23.40 °C
High IR	26	3.78 mΩ
Low IR	25	3.24 mΩ

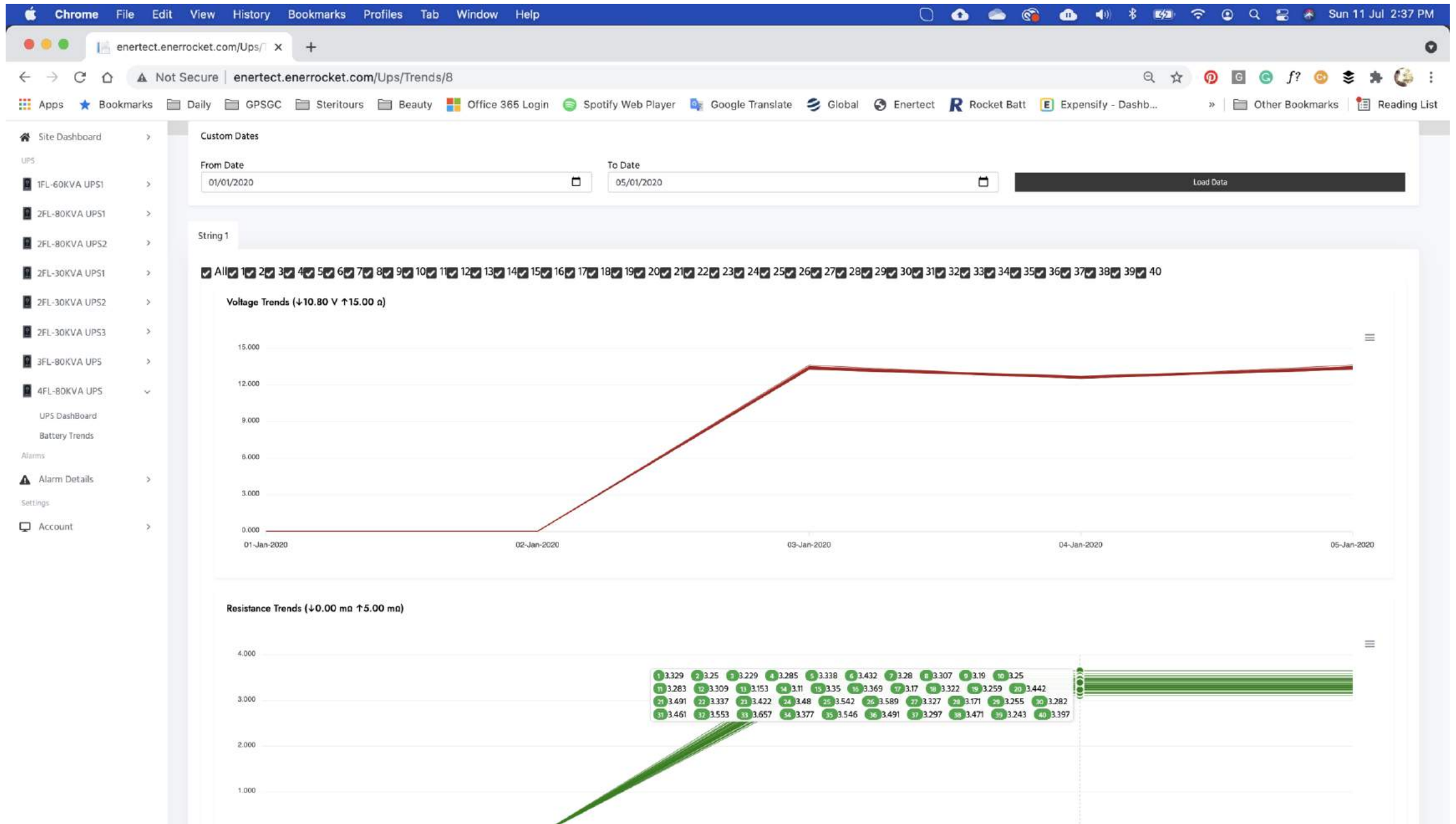
2FL-80KVA UPS2

String 1

2FL-30KVA UPS1

String 1





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enernect.enerrocket.com/Alarm x

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UPS

1FL-60KVA UPS1 >

2FL-80KVA UPS1 >

2FL-80KVA UPS2 >

2FL-30KVA UPS1 >

2FL-30KVA UPS2 >

2FL-30KVA UPS3 >

3FL-80KVA UPS >

4FL-80KVA UPS >

UPS DashBoard

Battery Trends

Alarms

Alarm Details >

Settings

Account >

Alarm Details

Export Data

Drag a column header here to group by that column

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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