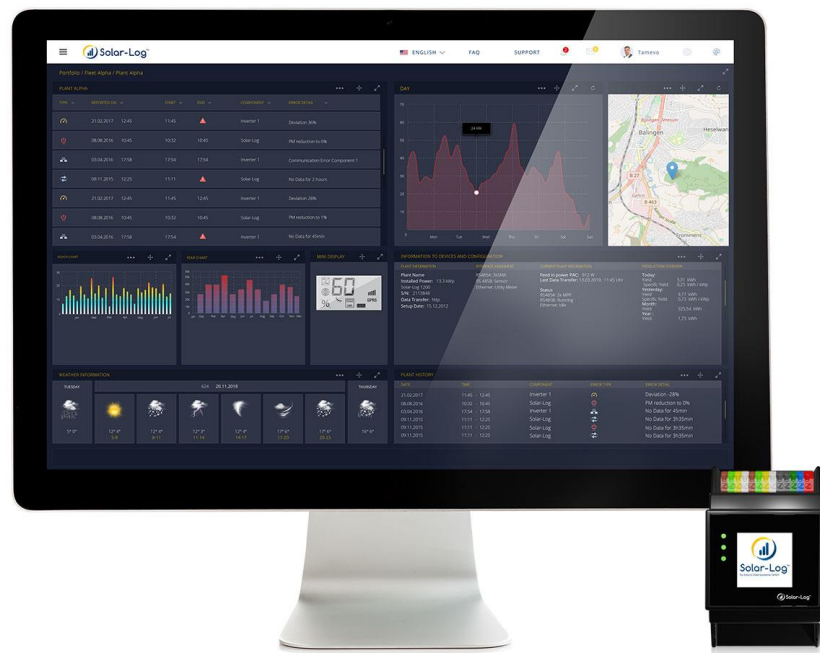


Solar-Log & iPLON Innovations Together

More value & benefits for YOU



1. Compatible with all major manufacturers
2. Designed to meet your individual plant needs
3. Plug & Play
4. More security, higher yields
5. Solar-Log WEB-4U (AMC for Rooftop Plants- PV Doctor & PV Nurse)

Your added value and benefit

Compatibility

Compatible with more than 2000 components and manufacturers

Hardware Agnostic

Solar-Log[®] solutions cover the full-range of customer requirements

iPLON Development capability for local components with quicker approach

Solution Partners



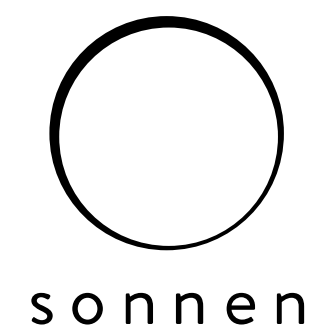
Inverter Manufacturers



Strategic Partners



Battery systems



Your added value and benefits

Design to meet your individual needs

Flexible, modular, simple yet powerful

Solar-Log Elements

Solar-Log Base

Coming
September
2019



- **Faster** processor
- Extended **memory**
- Extended **interfaces** means more capabilities (2x Ethernet, 2x USB)
- Integrated **overvoltage protection**
- Additional **real-time clock & temperature sensor**
- **Designed** for easy install and DIN rail mounting
- **Oscilloscope** features, communication quality test
- Easily **expandable** by auxiliary modules (more RS-485 interfaces, analog I/O, digital I/O, wireless, PM, ...)

Solar-Log Base 15, 100, 2000

Application with display





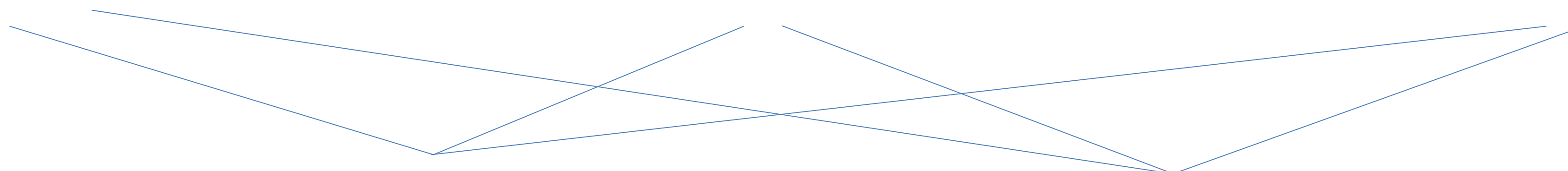
Solar-Log Base 15
Up to 15kW



Solar-Log Base 100
Up to 100kW



Solar-Log Base 2000
Up to 2MW



MOD I/O
Extension Module 1



MOD 485
Extension Module 2

Hardware for Feed-IN Management Solutions- All in one

Now

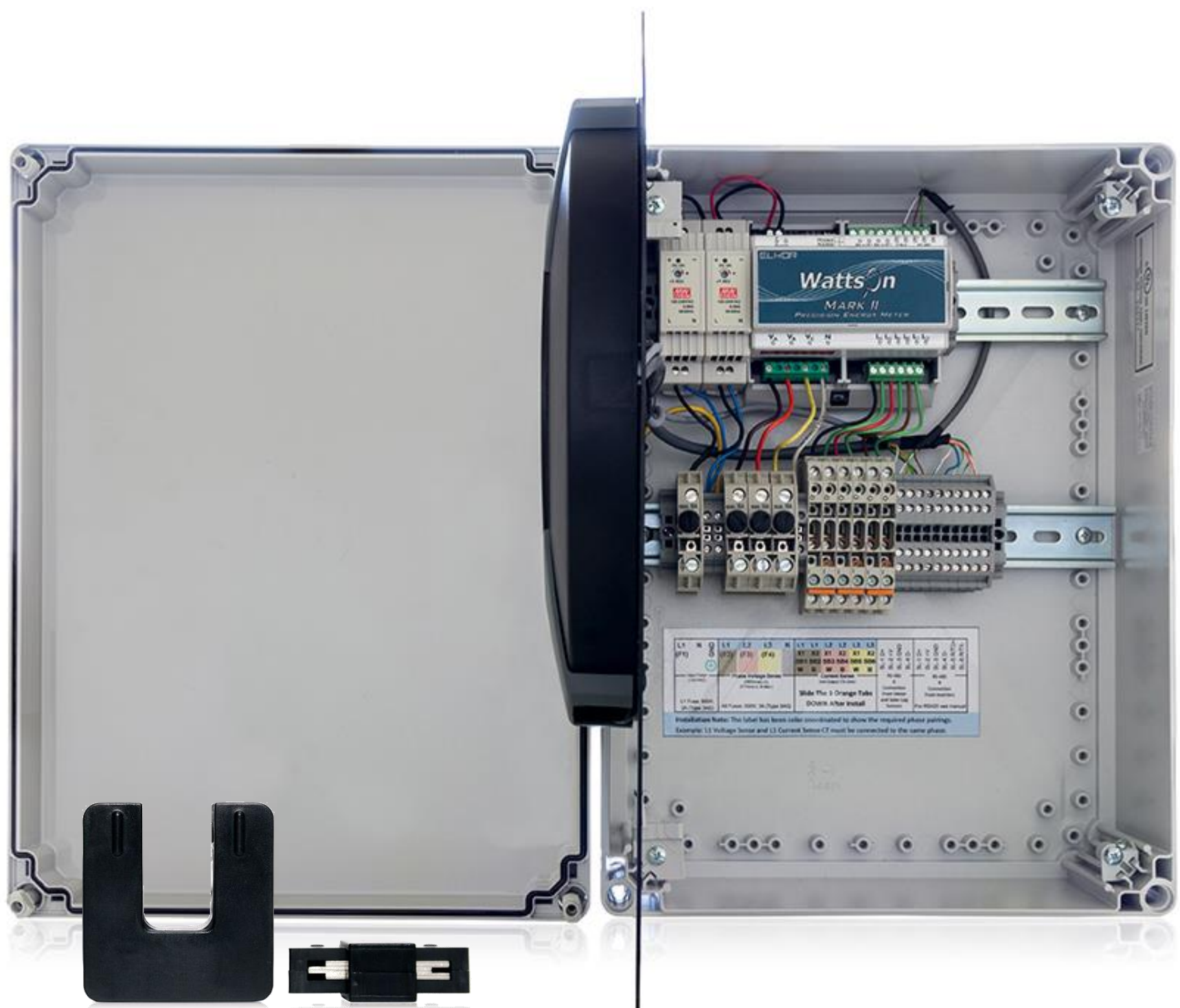
Data Logger



Solar-Log 1200,
1900 or 2000



Active & Reactive Power Control with Self-Consumption metering with GPRS Router in built



PV- RMS+ZE

Hardware for C&I

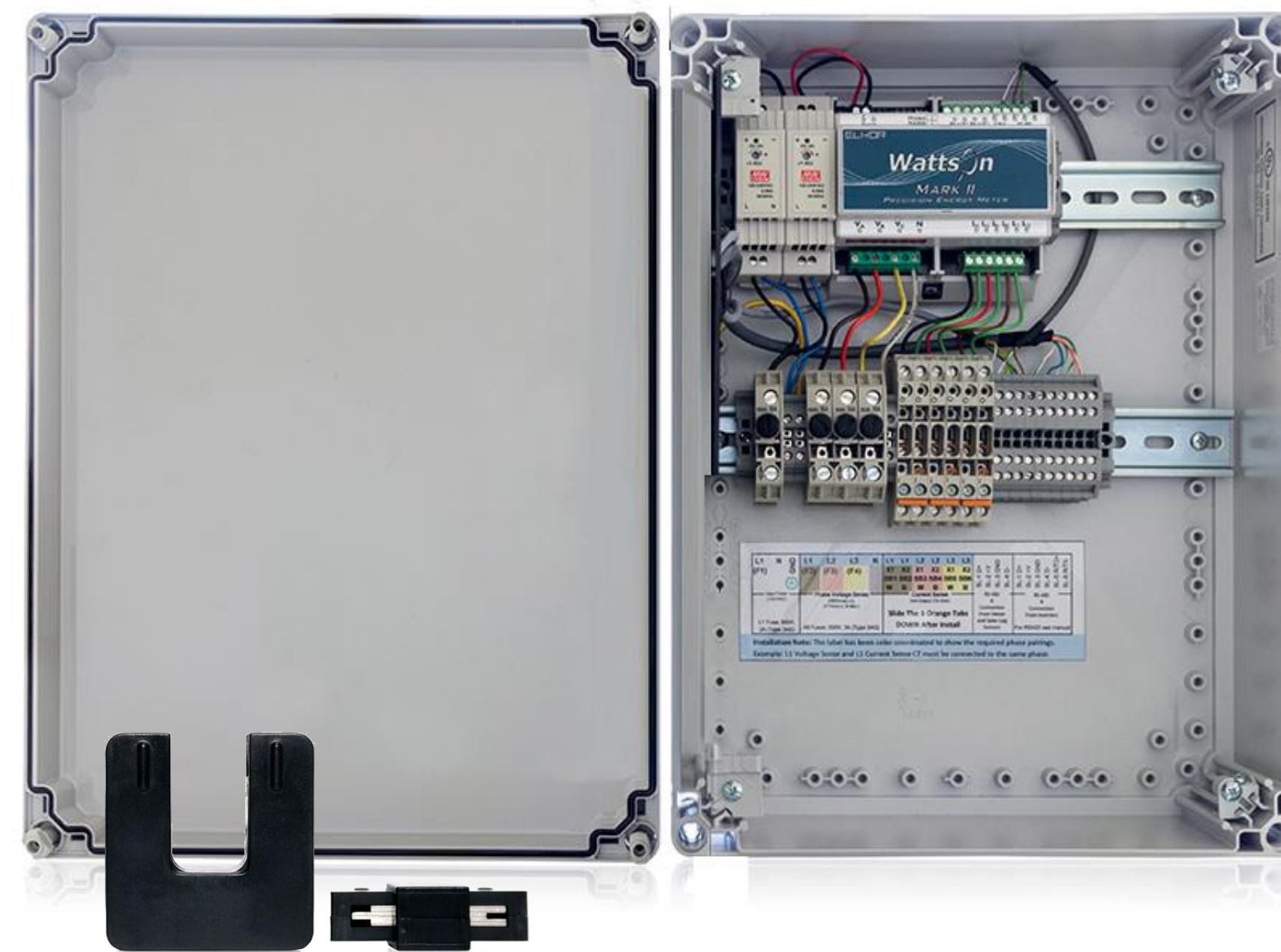
New

Data Logger

Active & Reactive Power Control with Self-Consumption metering with GPRS Router in built



Solar-Log Base



PV- RMS+ZE

Your added value and benefits

Plug and play, easy to use

Time savings – Compact , DIN mountable, advanced

Solar-Log Base

Modular Approach



Solar-Log™ Elements grow with your plant ...



Solar-Log
Base Unit

Solar-Log
MOD I/O

Solar-Log
MOD 485

3.

Integrated bus analysis via the oscilloscope function



Coming
DEC2019

Solar-Log WEB Enerest™ 4.0

More security, higher yields

Your added value and benefits

Time and cost savings

Optimized views and processes

Easy-to-use

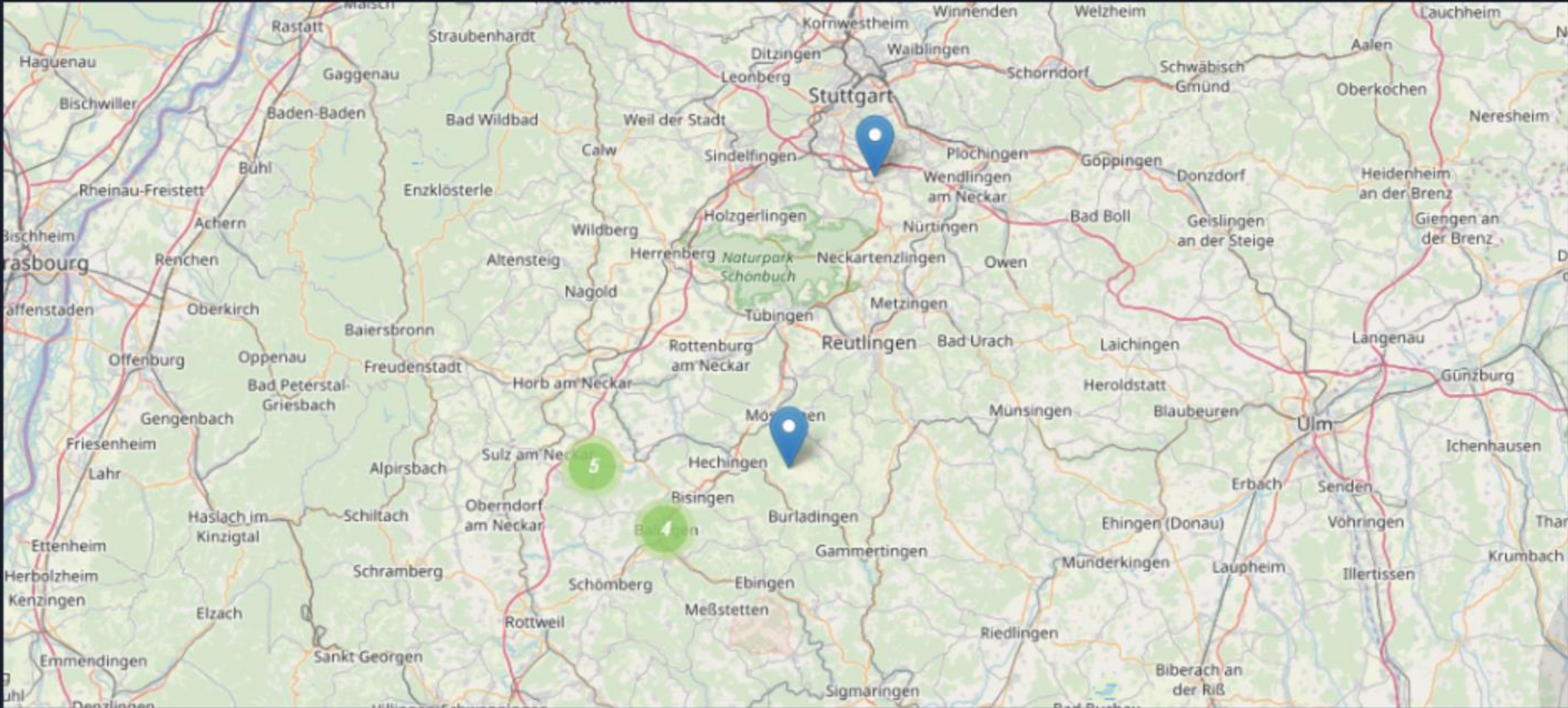
Ensuring the highest possible yield along with the highest level of data protection

Portfolio /

PORTFOLIO OVERVIEW

FLEET NAME	MALFUNCTIONS	ERROR OVERVIEW
Balinger Fleet (Child)	100 malfunctions in 0 plants	
Balinger Fleet (Parent)	100 malfunctions in 0 plants	
has 6 Plants	151 malfunctions in 6 plants	55
hasALotOfPlants	2564 malfunctions in 11 plants	
Huehu	100 malfunctions in 0 plants	
ksljgsfkjg	100 malfunctions in 0 plants	
New fleet	100 malfunctions in 0 plants	

PLANT LOCATIONS



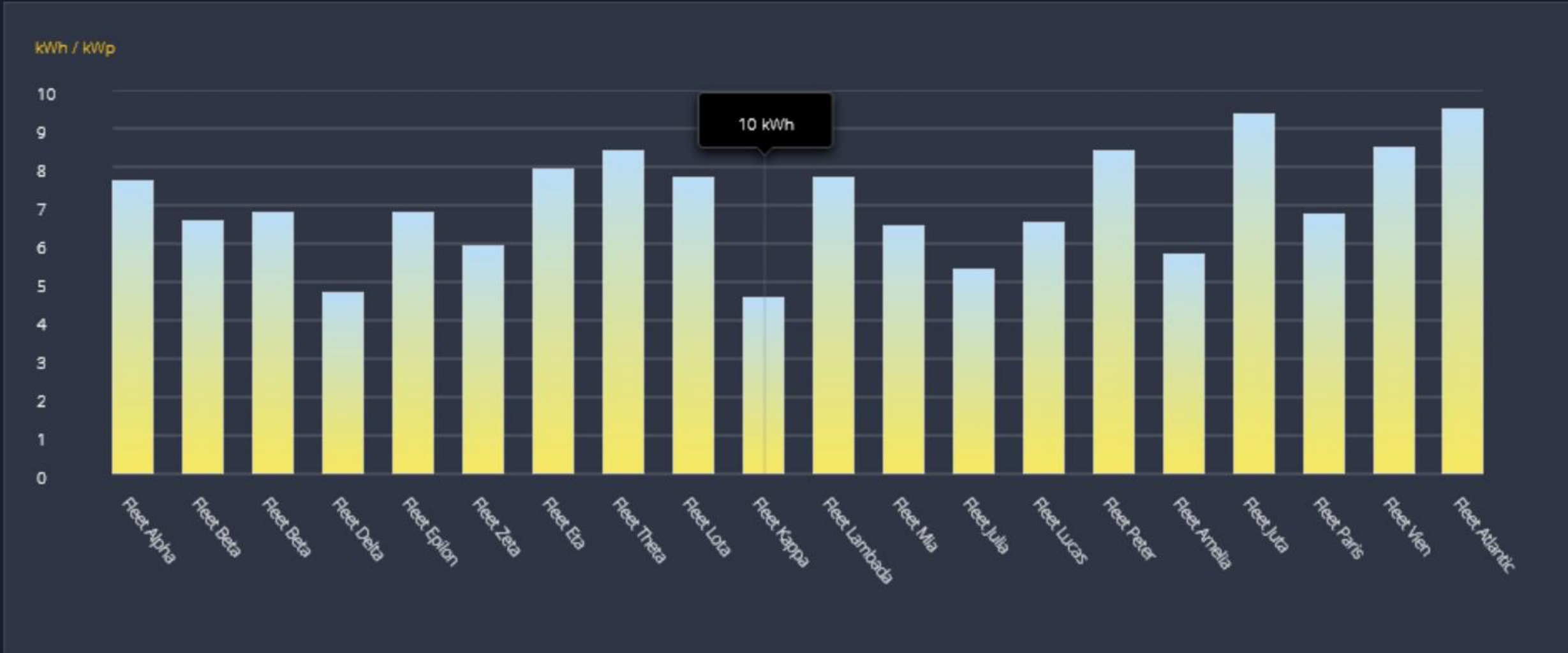
PORTFOLIO ERROR HISTORY

DATE	TIME	FLEET	PLANT	COMPONENT	ERROR TYPE	ERROR DETAIL
21.01.2019	11:45 - 12:45	Balinger Fleet (Child)	Plant Alpha	Inverter 1		Deviation -28%
08.08.2018	10:32 - 10:45	Balinger Fleet (Parent)	Plant Beta	Solar-Log		PM reduction to 0%
09.11.2017	17:54 - 17:58	has 6 Plants	Plant	Inverter 1		No Data for 45min
03.04.2017	11:11 - 12:25	hasALotOfPlants	Plant Alpha	Solar-Log		No Data for
07.12.2016	11:45 - 12:45	Huehu	Plant Alpha	Inverter 1		Deviation -28%
14.09.2015	11:45 - 12:45	ksljgsfkjg	Plant Alpha	Inverter 1		Deviation -28%
14.09.2015	11:45 - 12:45	Bambada	Plant Alpha	Inverter 1		No Data for 25min

PRODUCTION OF FLEETS

Backward

Forward



FLEET ALPHA PLANT OVERVIEW

☰

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↗

PLANT NAME	SERIAL NO.	SIZE					
Plant Venus	12345678	4kWp	2	✓	2	9	✓
Test Plant 1	12456789	15kWp	✓	✓	30	9	1
Test Plant 10	12345678	6kWp	555	✓	19	170	15
Test Plant 2	12456789	5kWp	✓	✓	20	19	✓
Test Plant 4	12456789	8kWp	✓	✓	15	29	✓
Test Plant 4	12456789	10kWp	✓	1	18	2	1
Test Plant 5	12456789	2kWp	5	1	✓	✓	1

FLEET ALPHA HISTORY

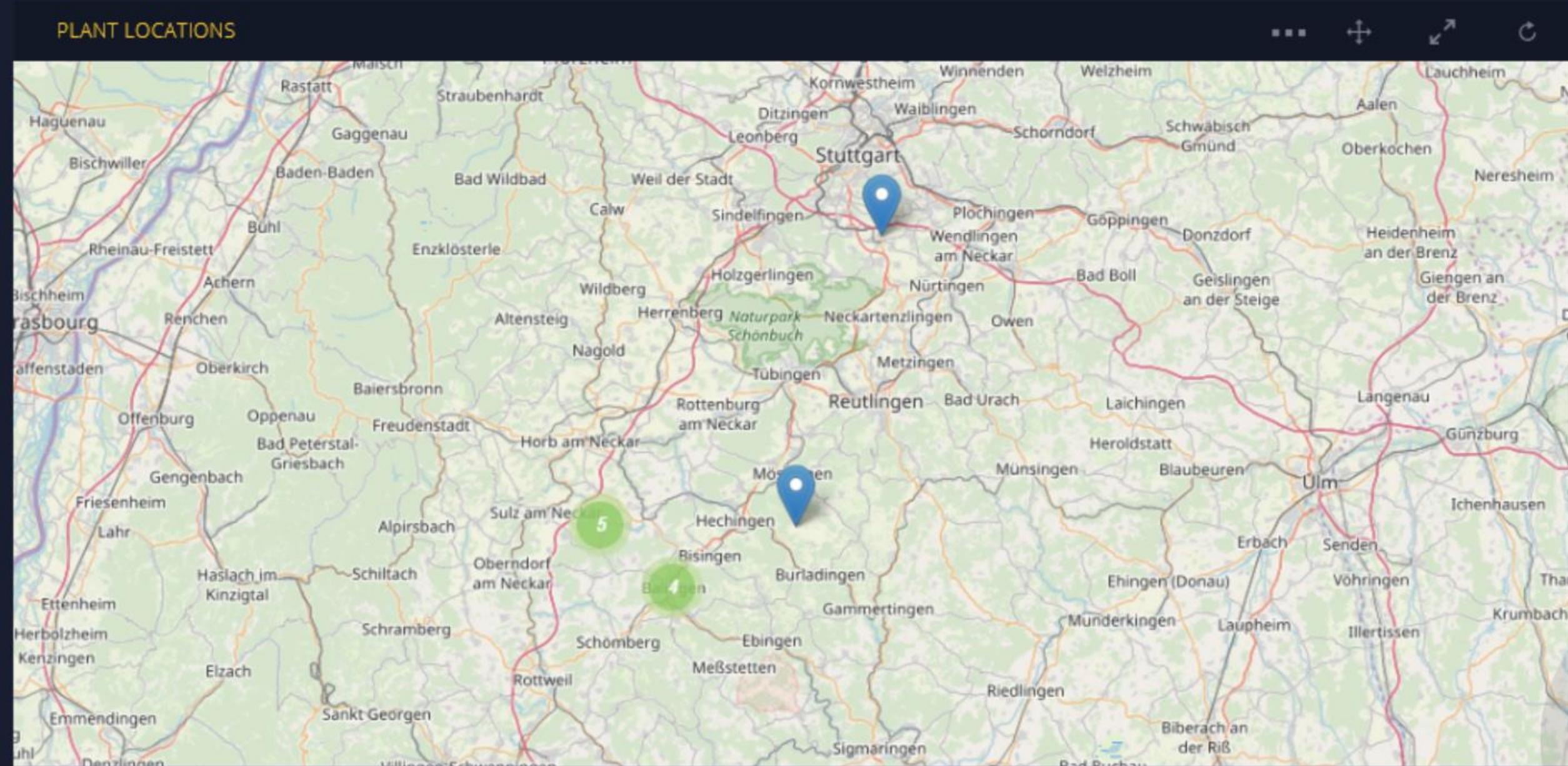
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DATE	TIME	PLANT	COMPONENT	ERROR TYPE	ERROR DETAIL
21.01.2019	11:45 - 12:45	Plant Alpha	Inverter 1		Deviation -28%
08.08.2018	10:32 - 10:45	Plant Beta	Solar-Log		PM reduction to
09.11.2017	17:54 - 17:58	Plant	Inverter 1		No Data for 45min
03.04.2017	11:11 - 12:25	Plant Alpha	Solar-Log		No Data for
07.12.2016	11:45 - 12:45	Plant Alpha	Inverter 1		Deviation -28%
14.09.2015	11:45 - 12:45	Plant Alpha	Solar-Log		Deviation -28%
14.09.2015	11:45 - 12:45	Plant Alpha	Inverter 1		No Data for 25min

HIDE



PLANT ALPHA DEVIATION

25.11.2016

Reported 13:35h

Affected Component #Name WR #MPP Tracker

🔄 Deviation

Error Period: from 12:30 - Still active

ADDITIONAL DATA

Solar-Log WEB Enerest has detected a deviation on 1/16/19 at 15:00 at mock Plant max 1st

Component with deviation:

#NameWRdev MPP Tracker

Actual yield:

0,50 kW/kWp

Deviation:

32%

Reference component:

#NameWRref#MPPTTracker

Target yield:

0,30 kW/kWp

CLEAR ERROR

ERROR HANDLING

MONITORING PARAMETERS

Monitoring begin:

10:00

Monitoring end:

13:00

min. generation:

20%

min. deviation:

20%

min. error duration:

30Min

max. messages sent per day:

3

Snow coverage:

on

Send Email to:

adresse@server.com

CONFIGURATION

TO BE DEFINED ...

MINI DISPLAY

60

%

GPRS

WEATHER INFORMATION

TUESDAY

624

20.11.2018

THURSDAY

☁️

5° 0°

☀️

12° 4°

5-8

☁️

12° 4°

8-11

☁️

12° 3°

11-14

☁️

12° 4°

14-17

☁️

17° 6°

17-20

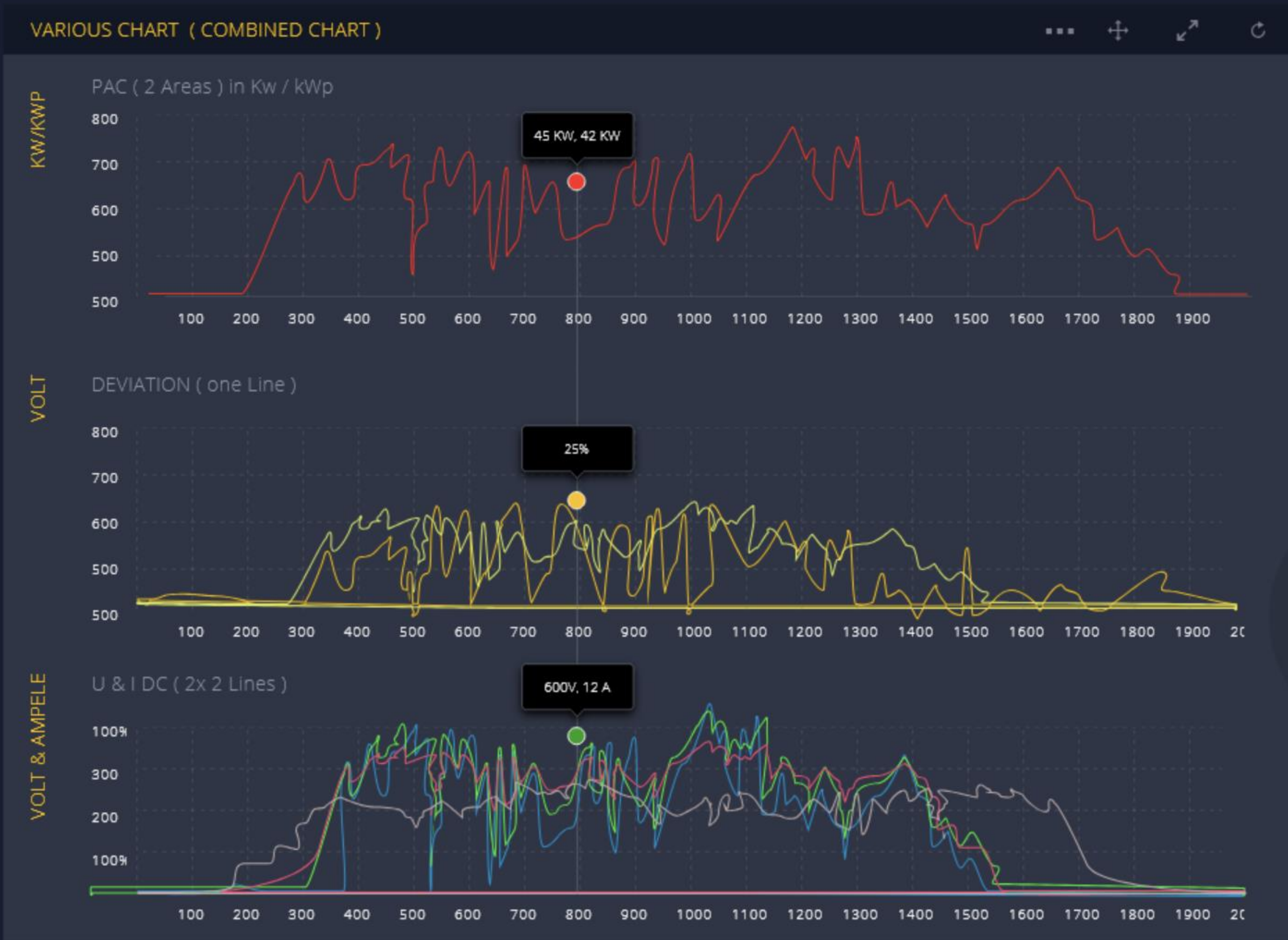
☁️

17° 6°

20-23

☁️

16° 6°



COMPONENT HISTORY

DATE	TIME	ERROR TYPE	ERROR DETAIL
21.01.2019	11:45 - 12:45	🔄	Deviation -28%
08.08.2018	10:32 - 10:45	📶	No Data for 25min
09.11.2017	17:54 - 17:58	📶	No Data for 45min

Monitoring / Fleet 2 - Cologne / [T2] Bürgerkraftwerk Köln Hafen (XXL) / RPI M50A - Communication

TYPE	REPORTED ON	TIME	COMPONENT	ERROR DETAIL
	07/05/2019 11:36	10:15 - 11:35	RPI M50A	No communication for 1 hour

The communication between the Solar-Log and one of the connected components failed.

Component name: RPI M50A
Affected interface: Ethernet

The Solar-Log™ receives no current data and therefore is not able to monitor the component.

ArchiveHandle

Component Informations

Manufacturer: Delta

Type: Inverter

IP address: 192.168.1.54



 **Inverter: WR3-A** Manufacturer : SolarMax 32HT4a Max. AC Power : 16kW

MPP 1 Module field : 5 Generator Power [Wp] : 8670 Name: String 17 18

MPP 2 Module field : 5 Generator Power [Wp] : 8670 Name: String 19 20

 **Inverter: WR3-B** Manufacturer : SolarMax 32HT4a Max. AC Power : 16kW

MPP 1 Module field : 6 Generator Power [Wp] : 8160 Name: String 21 22

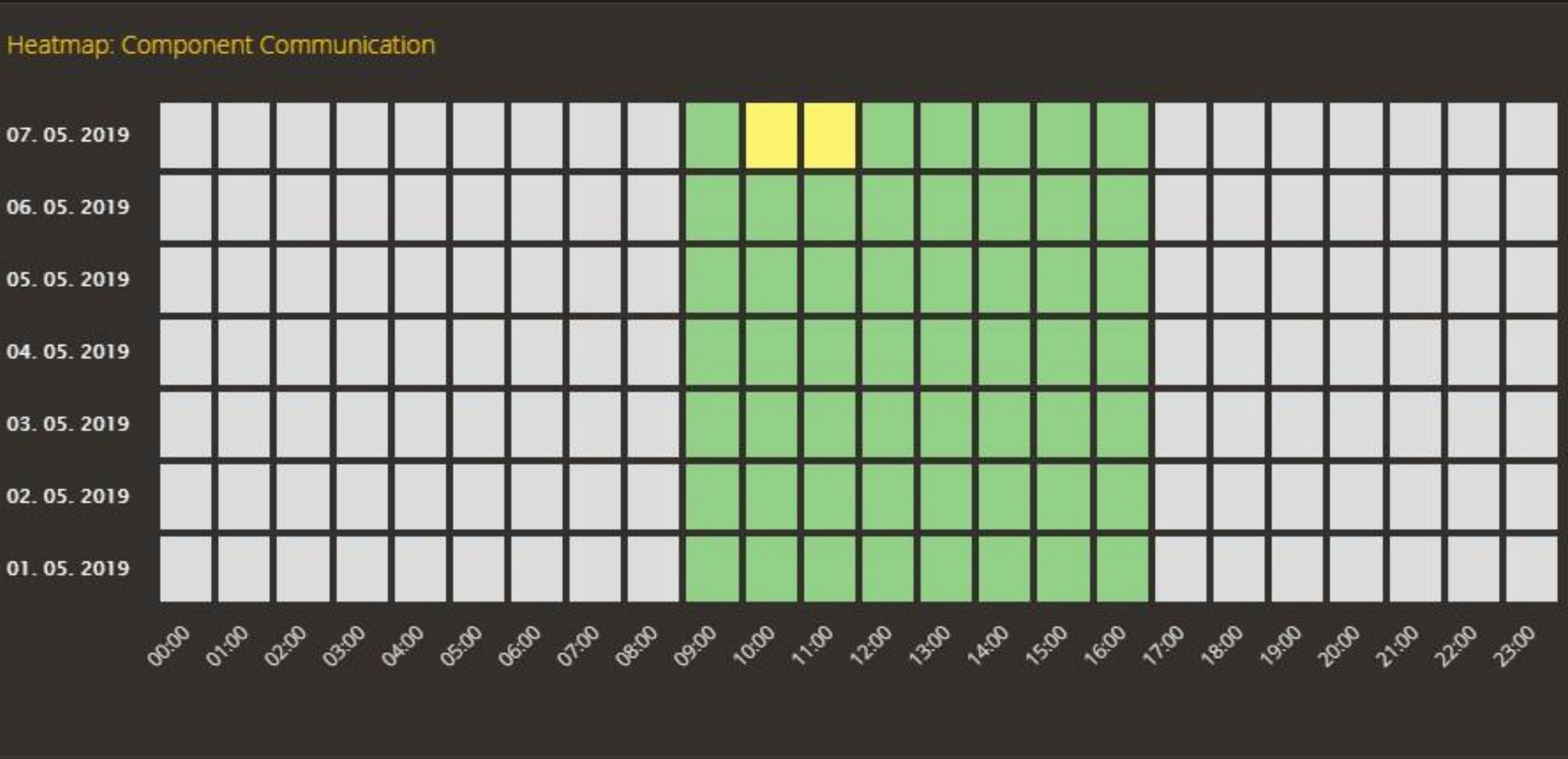
MPP 2 Module field : 6 Generator Power [Wp] : 8160 Name: String 23 24

 **Meter: Verbrauch** Manufacturer: Janitza Max. Power: 180kW Operating Mode: Utility Meter

UMG-104



TYPE	DATE	TIME	COMPONENT	ERROR DETAIL
	07/05/20...	10:15 - 11:35	RPI M50A	No communication for 1 hour





Create an onsite service call plan for your plants

Our Software



Task list /

QUICK FILTERS:

Today

TO DO [6]

Plant name

SN: 58684252

Due to
28.08.2018 11:00 pm

Plant name

SN: 58684252

Due to
28.08.2018 11:00 pm

Plant name

SN: 58684252

Due to
03.09.2018 8:40 pm

Plant name

SN: 58684252

Due to
28.08.2018 10:10 pm

Plant name

SN: 58684252

Due to
01.09.2018 15:18 pm.

PLANT CARD: VENUS



ASSIGNEE: LOGan

ISSUE NUMBER: 1122

Due to:

28. 08. 2018



PLANT INFORMATION

24 kWp
Solar-Log 2000 PM+
SN: 58684252
Firmware: 3.6.2

PLANT LOCATION

Street 12
78628 Binsdorf
Germany

Map:



CONTACT PERSON

Mr. Alexander Braun
On the Talrain 15,
72348 Rosenfeld Germany
Phone: +49 152 153 122 55
Email: a.braun@solar-log.com

TASKS

Create New Task

☐ Subtask short description

Data transfer #CompoName has a fault xyz reported | Manufacturer code: High Voltage
Solar-Log Code: 15. Other text Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean

Description here

2 Consectetuer.pdf Dolorsitamet.png

☐ Subtask short description

Data transfer #CompoName has a fault xyz reported | Manufacturer code: High Voltage
Solar-Log Code: 15. Other text Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean

Description here

2 Consectetuer.pdf Dolorsitamet.png

☒ Subtask short description

Data transfer #CompoName has a fault xyz reported | Manufacturer code: High Voltage
Solar-Log Code: 15. Other text Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean

Description here

2 Consectetuer.pdf Dolorsitamet.png

COMMENTS

Description here

Alan Cash

5 minutes



Lorem ipsumsit, consectetur.

James Cooker

2 hours a



Lorem ipsumsit, consectetur adipiscing elit.

Benjamin Groetzner

2 months ago



Lorem ipsumsit, consectetur ipsumsit.

Michael Smith

11:45 24.11.2018



Lorem ipsumsit, consectetur adipiscing.



3



3 / 3



1



2 / 9



3



8 / 8



4



1 / 4



Battery Storage System

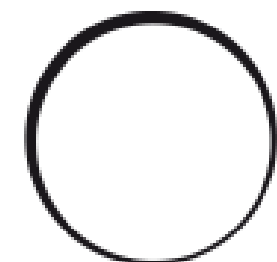
Battery Storage System – Visualization

Charging capacity

Solution Partner:



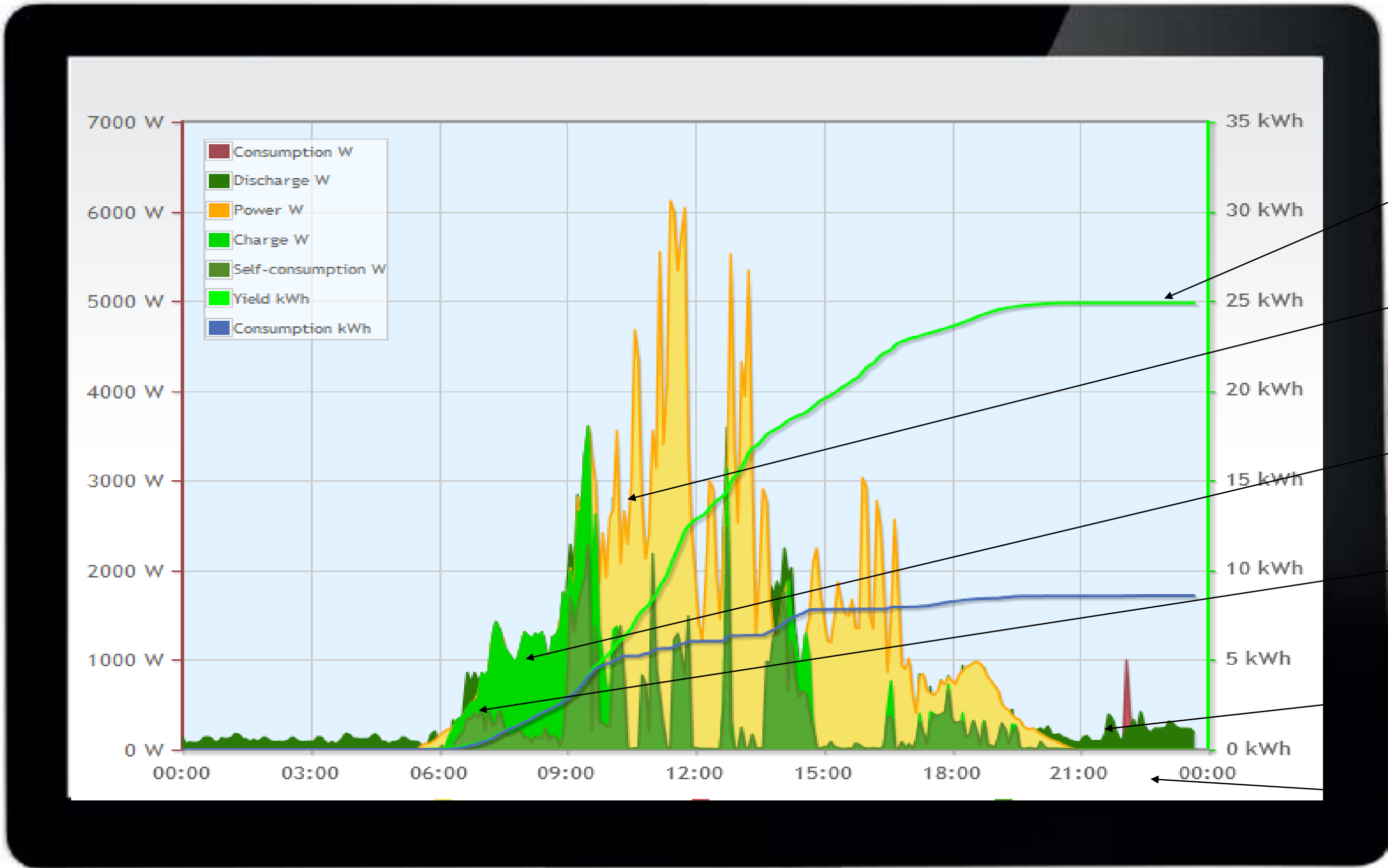
Phono[®] Solar



VARTA Storage



Solar Plus Storage



Battery State of Charge

Grid Feed-in (Surplus Power)

Self Consumed Power

Charging Battery with Power

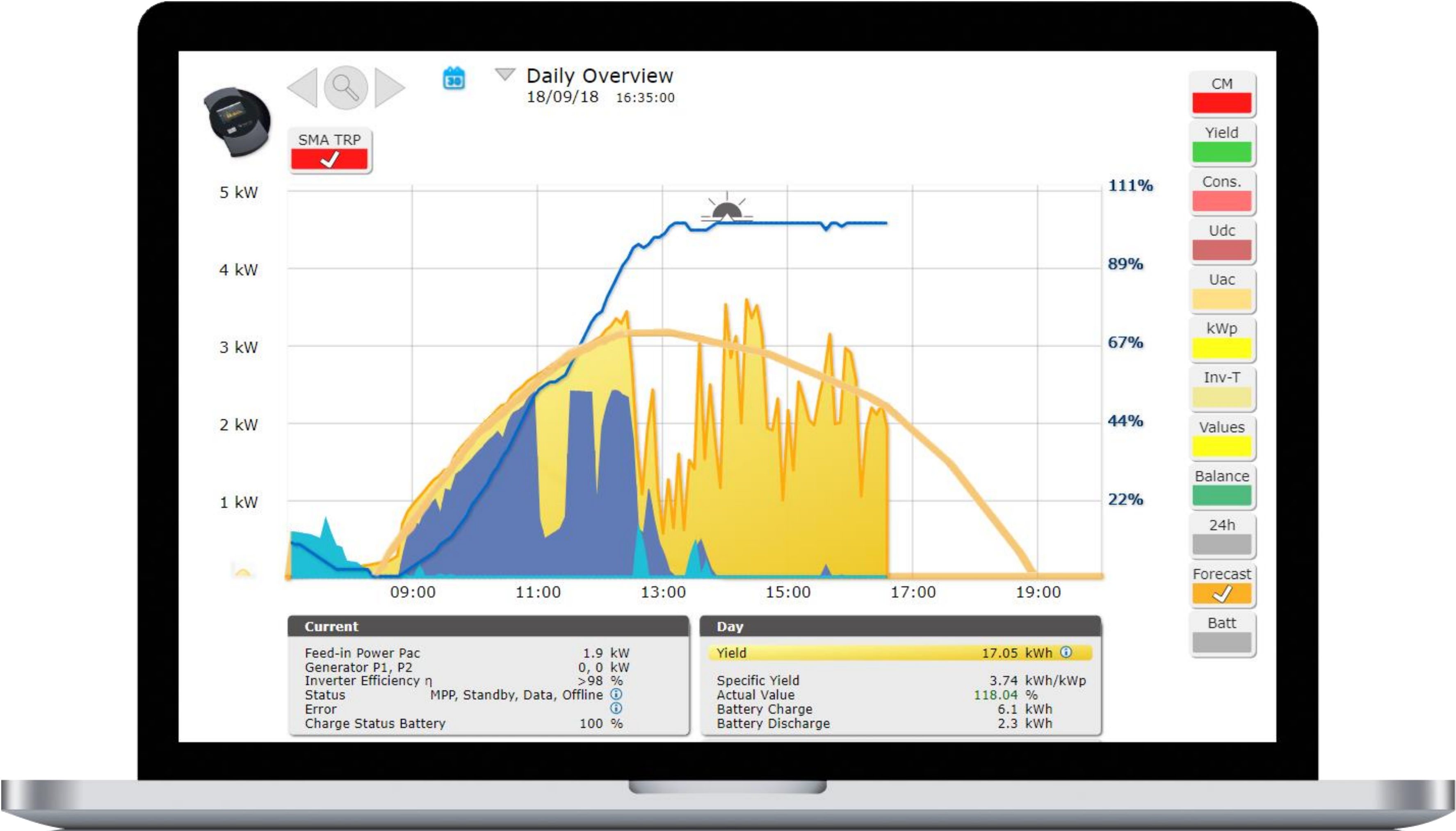
Purchased Power from the Grid

Battery Power Consumption

Forecast-based Battery Charging

Intelligent control

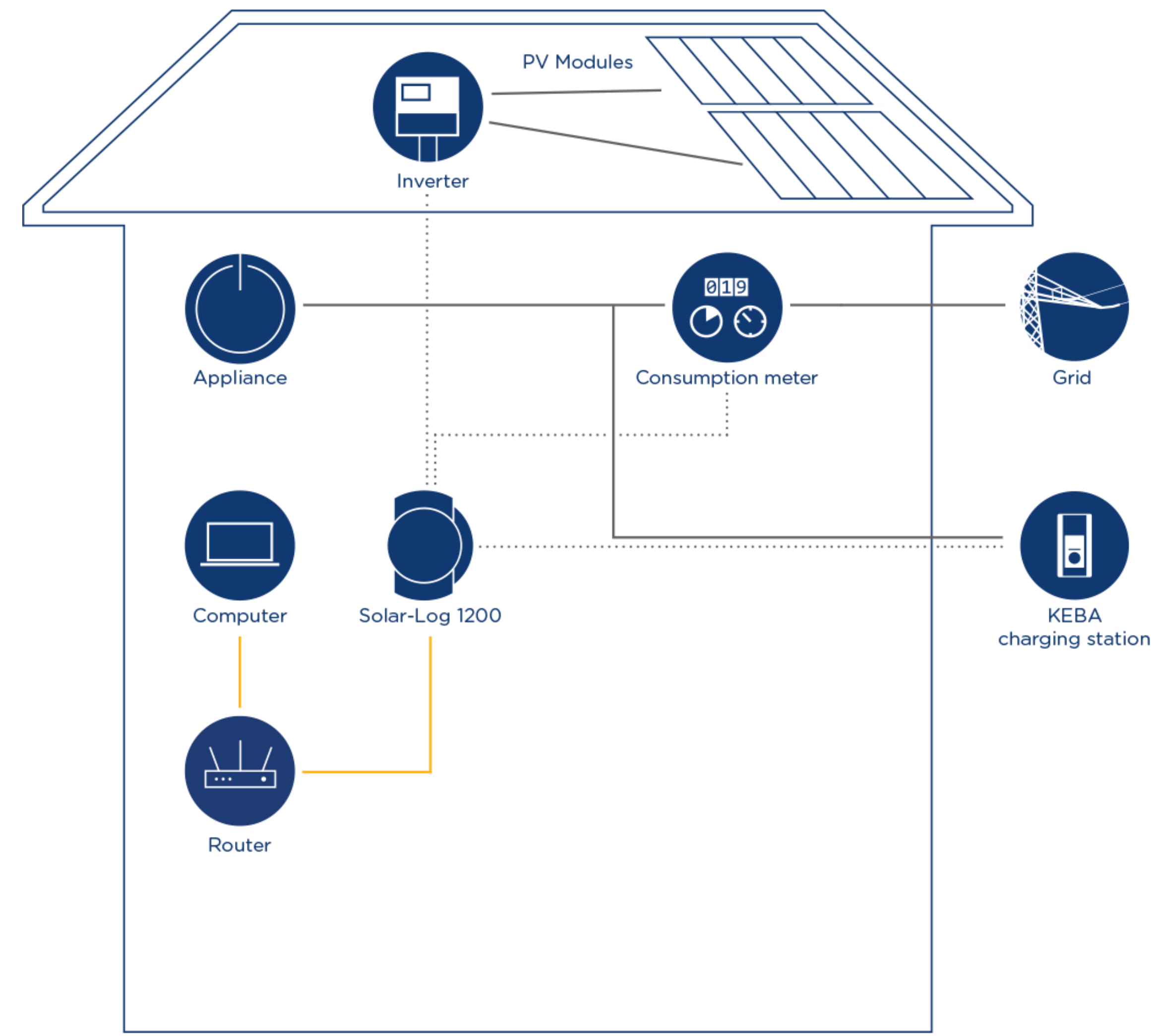
Technology Exclusive to:





E-Mobility

KEBA Power Charging Stations

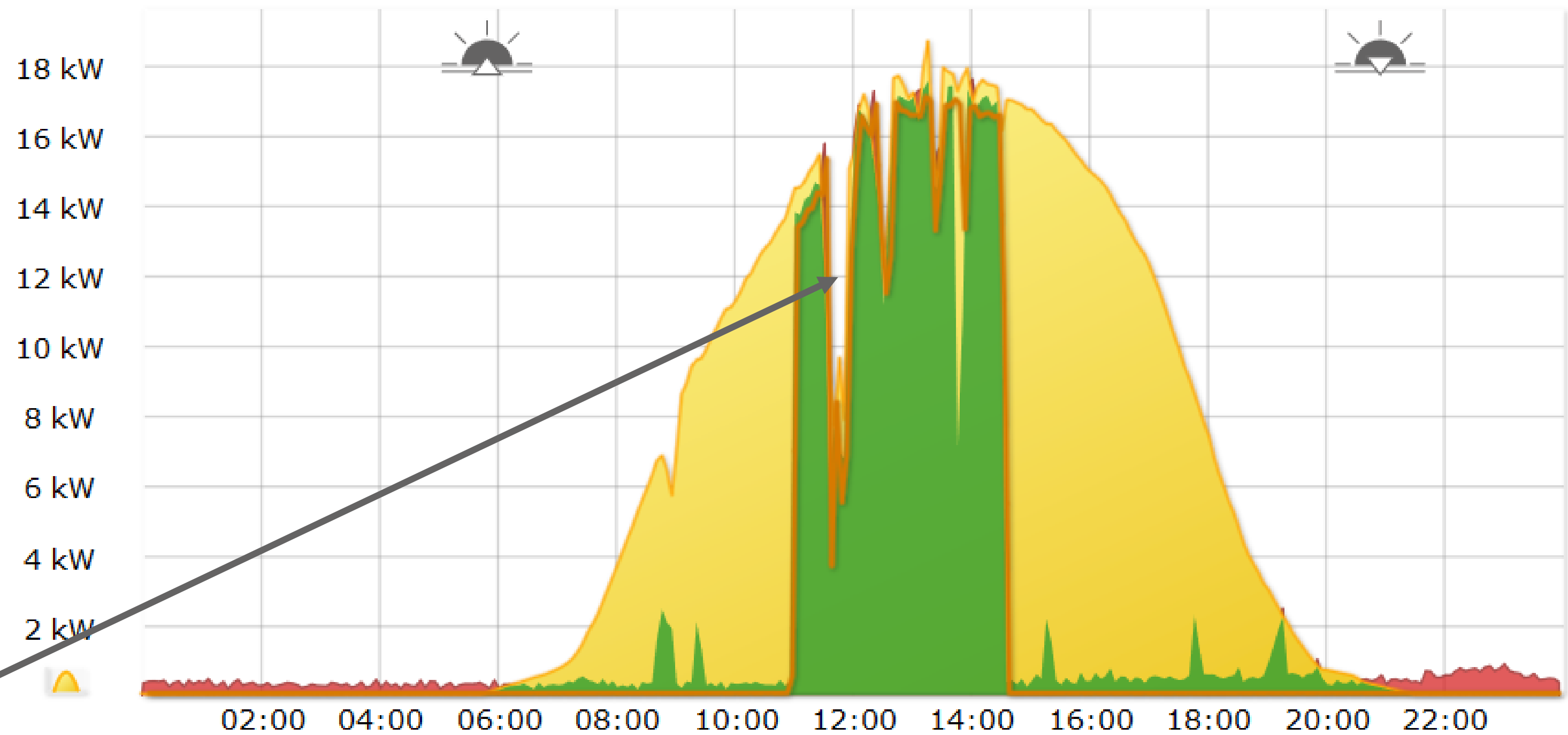


KEBA Charging Station

E-Mobility

Analysis of the day:

Complete Yield:	139,85kWh
Complete consumption	61.85kWh
Car consumption	50,19kWh
Degree of self-sufficiency	92,9%



The brown line shows the charging capacity of the car.

Solar-Log™ adapts the charging capacity to the surplus even if production is changing.



Solar-Log[®]
WEB-4U

Professional Service for PV Monitoring

Solar-Log® WEB-4U

Give Your Business a Competitive Advantage

	You + WEB-4U	Your Competition
Dedicated Monitoring Team	✓	✗
Systematic Plant Performance Review	✓	✗
Higher Quality of Service	✓	✗
Trusted by more plant owners than any other monitoring platform	✓	✗
Increased Branding	✓	✗

Solar-Log® WEB-4U

Increase Efficiency of the O&M Process



Solar-Log® professionals **pro-actively monitor** your solar plant performance from one central command unit.

Dedicated experts receive, analyze and remedy plant configuration & performance errors, as quickly as possible, **so you don't have to.**

If you want, we will even inform your customers.



Unbeatable Value

Pricing varies by hardware product and plant size.
Modular structure means you only pay for the features you need.

