



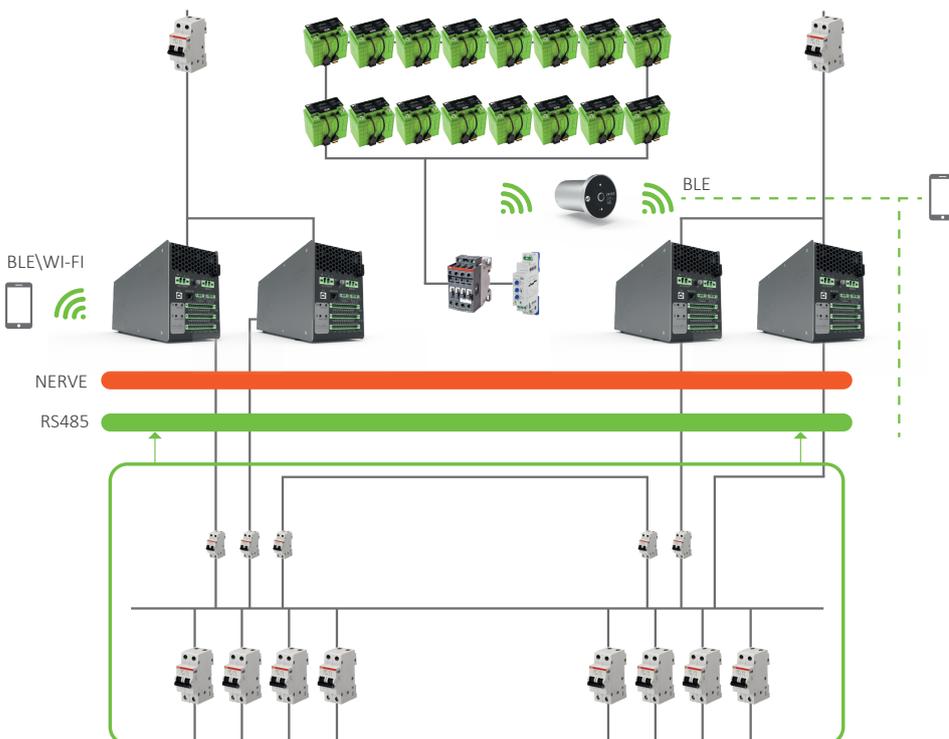
# Laurel

Laurel is a rectifier-charging device which is designed and manufactured based on 3 key principles: maximum reliability, ease to use and digitalization. The main field of application is DC power supply systems, as well as guaranteed power supply systems of communication equipment in digital substations.

These power units use the most modern technologies and best components in the world, which made it possible to achieve high efficiency, low heat generation and, therefore, high reliability.

Remote control and monitoring can be carried out through a conventional Ethernet network, as well as through a specially designed mobile application. While the exchange of data between Laurel rectifier-charging device can be carried out via special bus, called NERVE.

When developing this solution, we increased the reliability of the OTD due to simplification. Using the most advanced features of different devices and the synthesis of modern digital technologies, we were able to increase the object observability.



Laurel corresponds to the European standard EN55022 (CISPR22) Class B

### Event log

up to 1000 recent events

### Disturbance recorder

up to 100 DR with analog, digital and logic signals

### Analogue parameters control

Measurement of current and voltage of the Laurel and Battery, as well as the temperature of the Battery during 72 hours

- + Control U and T of each battery. Wireless data acquisition from sensors inside the battery cabinet
- + Monitoring 21" + mobile app
- + Waveform Recording LAUREL
- + Big number of DI/DO in Laurel. No need in separate controller
- + Save up to 25% on cabinet electrical connection

up to **10**  
modules in parallel



Wi-Fi



Bluetooth



## Reliability in everything

- Overvoltage protection on the part of the supply network
- Undervoltage protection on the part of the supply network
- Overvoltage protection in DC circuits
- Short Circuit protection in DC circuits
- Overheat protection

Temperature range

**-20°...+55°**

Aluminum and stainless-steel housing

## TECHNICAL DETAILS

Power	<b>2700W   12,5 A</b>
Uinput	<b>170-254 V</b>
Uoutput	<b>220 DC</b>
Efficiency	<b>~92%</b>
Communication	<b>RS-485, Bluetooth, Wi-Fi, USB, NERVE</b>
Group work	<b>2 groups up to 5 LAUREL each</b>

**20 DI**  
**6 DO**

