

# LED CABINET

## LED STREET LIGHTING SYSTEM CABINET

The LED cabinet combines a comprehensive solution providing professional security and control of modern LED street luminaries in a single housing.

Compared to traditional street lighting fixtures, LED luminaries require a totally different security system. For this reason the LED cabinet houses four sections:

1. Security section
2. Power compensation section
3. Measuring section
4. Switching section

The security section contains all necessary elements protecting the power supply line against all kinds of over-voltages and current surges. Additionally, there is a “soft-start” system in this section in order to prevent current surge when switching on the lighting.

The next section includes a properly selected and performed compensator of LED’s capacitive reactive power offering parameters corresponding to the needs of a specific location. The switching section contains common control components: contactors, protection for power lines supporting individual lighting circuits, control and remote monitoring system CPAnet and harmonic filters. The filters significantly “improve” the power factor, reducing harmonic losses generated by LED switch mode power supplies but also improve THD.

The measuring section is always equipped with a separate door and lock. This section includes upstream of the counter protection and measuring equipment which is installed depending on the needs and requirements of the power supply company.

The cabinets are performed according to customer requirements. Technical details are established with a customer at the stage of order completion. The final draft is drawn up, accepted and implemented. The cabinets are normally mounted in aluminium housings, powder coated, but it is also possible to use other housings. We offer single-phase or three-phase versions of the cabinets, with the power



range up to 120 kVA. The use of modern control system based on CPAnet controller allowed us to develop a solution that fully complies with the European standards. Thanks to the remote software update it is also flexible because it can be adapted to customer needs that change over time.

### FEATURES OF THE DEVICE

- capacitive reactive power compensation
- “on-line” control and full supervision over the cabinet work in real time
- over-voltage and lightning surge protection
- “soft-start” system – inrush current surge protection
- harmonic filter
- cabinet performance options: I or II insulation class
- ability to produce cabinets adapted for every control system

### TECHNICAL SPECIFICATIONS

- available power range:
  - single-phase versions: up to 20 kVA
  - three-phase versions: up to 120 kVA
- dimensions and weight depend on the version