

Type	Elkostat 15K400	Elkostat 30K400	Elkostat 45K400	Elkostat 60K400	Elkostat 5K230	Elkostat 10K230	Elkostat 15K230
Article number	9240	9241	9242	9243	9244	9245	9246
Mains input	400V 50 Hz three-phase + neutral				230V 50 Hz single-phase + neutral		
Input voltage tolerance	-10% ... +8%						
Output power	15 KVA	30 KVA	45 KVA	60 KVA	5 KVA	10 KVA	15 KVA
Max. input current by phase	22.8A	45.6A	68.5A	91.3A	22.8A	45.6A	68.5A
Output voltage by phase	nominal level: 230V ± 2.5 % + 2V reduced level: 187 V +4% -0% (HS) 208 V +4% -0% (HM)						
Storage temperature	-40°C ... + 85°C						
Operating ambient temp.	-25°C ... + 50°C						
Dimensions: Height (mm)	1280		1350		580		
Width (mm)	450		500		450		
Depth (mm)	300		300		300		
Weight (kg)	94	125	148	228	35	46	54

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ELKOSTAT

**VOLTAGE STABILIZER
AND LIGHT DIMMER FOR PUBLIC LIGHTING**

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VOLTAGE STABILIZER AND LIGHT DIMMER FOR PUBLIC LIGHTING



ADVANTAGES:

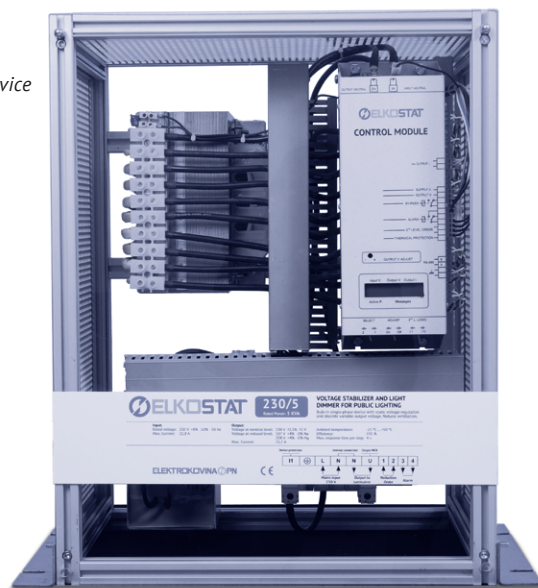
- the only certified product of the kind in Europe
- stabilizes output voltage; decreases and increases
- reduces energy and maintenance costs up to 40 percent
- works within a wide range of ambient temperature conditions
- short circuit protected
- reduced CO₂ emission
- reduced light pollution

FEATURES:

- mains voltage regulation and stabilization
- voltage control during start-up and stabilization process of the lamps
- inrush current limitation
- central control and simple installation: no need of intervention at the luminaries
- security by-pass to maintain lighting in service in case of emergency
- independent control and power modules for each phase
- load analysis: lamp-off detection
- LCD screen for each phase displaying main parameters, status and messages
- suitable for high pressure sodium and mercury lamps
- supports telecontrol

USAGE:

- residential areas: streets, roads, avenues, roundabouts, bridges...
- industrial areas: industrial estates
- commercial and public areas: car parks, railway stations, quays etc.
- transport lighting systems such as airports' aircraft parking areas etc.



Elkostat is designed to control the start-up and stabilizing process of lamps, stabilizing voltage and dimming light output to reduce power consumption of an installation of luminaries with high pressure lamps (HS or HM).

The reduction of power consumption is obtained by means of voltage stabilization and reduction of light output by means of decreasing the output voltage. **Elkostat** will switch to the reduced mode when the "reduction order" input is applied. The autotransformer is made of high quality materials to reduce power loss and self-heating. Reduction of light output - transition to reduction level and back to normal level is done gradually to prevent shock effect for eyes and also to assure thermal stabilization of ballasts and lamps.

Elkostat will be supplied in frame format (to be built-in) with thermal magnetic circuit breakers (one single pole for each phase) and a group of power and control terminals located in the bottom area of the chassis. **Elkostat** module is easy to install, it is to be connected between the distribution transformer and luminaries.

The optional telecontrol is also available. Using wireless network we have access to all parameters that are displayed on the module and they may also be changed in real time. If an error occurs a SMS message or email will be generated automatically.

Switching on and off of public lighting is controlled by an astronomic clock, according to sunrise and sunset times. Astronomic clock also controls the reduction, according to customer's needs. It also allows specific programming, such as holidays and events.

The three-phase unit it's made up of three autonomous single-phase control modules which operate independently of one another. Each module controls its own phase, without affecting the adjacent phases. The three modules have the following common features:

- The neutral wire is connected to the three modules and it is essential to bring it from the distribution transformer.
- The "reduction order" (230VAC) is common for the three modules.
- The "alarm indication" (free contact of voltage) is common for the three modules.

Each control module has a measurement system, which is displayed in its own backlight LCD screen: input voltage, output voltage (or dimming voltage), output current and output active power of each phase.

Elkostat can also be upgraded with compensation module to compensate inductive load of street lighting systems.

