+33 (0)4 56 00 50 00 ◆ INFO@BH-TECHNOLOGIES.COM ◆ BH-TECHNOLOGIES.COM

RÉGULATION-VARIATION

ST COMPACT

SINGLE-PHASE VOLTAGE REGULATOR-DIMMER

ST Compact is a compact single-phase voltage regulator-dimmer.nWith its integrated twilight control, it delivers up to 50% immediate energy savings in existing public lighting cabinets, without any modification to the electrical network.
This solution is compatible with both discharge lamp and LED technologies.

> Single-phase cabinet below 7 kVA

BENEFITS

VOLTAGE REGULATION & NETWORK STABILIZATION

- Protects equipment downstream
- Filters network disturbances
- Extends equipment lifespan

EASY INSTALLATION

- Immediate operation thanks to preprogramming

IMMEDIATE ENERGY SAVINGS

- Up to 50% reduction in energy consumption across equipped cabinets

COMPATIBLE WITH EXISTING NETWORKS

- Powers all types of discharge lamps with ferromagnetic ballasts
- Powers LED lighting on the same network as traditional lighting
- Connects to both new and existing networks with a common neutral (including EDF networks)

LIGHT ADAPTATION

- Programmed voltage reduction allows lighting adjustment
- The BH Dim base module allows LED luminaires without MainDim drivers to follow voltage dimming and adjust brightness along with other lighting systems

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FEATURES

PREPROGRAMMING

- Equipped with a Radiolite 220 astronomical clock or an Infralux infrared sensor paired with a digital clock
- Simple, tool-free programming of dimming schedules
- Advanced configuration available via PC connection (RS232 port)

OPTIMIZED FOR LED CONTROL

- Dimming speeds can be instantaneous, allowing advanced lighting management such as light output adjustment based on occupancy or time

PATENTED REGULATION SYSTEM

- Controls lamp supply voltage within ±1% accuracy using a patented regulation system
- Guarantees precision and stability
- Eliminates network fluctuations and transient phenomena
- Voltage can be increased when necessary to maintain optimal lighting performance

SAFE IGNITION

- Bypass mode ensures current continuity and lamp ignition

TECHNICAL DATA

Input voltage: 1 x 230 V + N, 50/60 Hz
Input voltage range: 180–253 V
Ignition voltage: 205–230 V (programmable in 1 V steps)
Output voltage: 175–240 V (programmable in 1 V steps)
Regulation: ±1%, i.e. ±2 V across all operating modes
Factory preset voltages: 210 V (ignition), 220 V (max) / 190 V (min)
Load variation: 0–100%, dimmer can operate without load
Downward voltage regulation speed: programmable up to 45 V/min per phase
Efficiency: > 98% across the full voltage range
Operating temperature: -30 °C to +60 °C
Humidity: 0–98% without condensation
Protection rating: IP20
Insulation class: Class 1 or Class 2
Connection: screw terminals 16 mm²
PC connection: RS232 port, PCP software
Gross weight: 28 kg
Dimensions (W x H x D): 200 x 600 x 152 mm
Certification: CE / Low Voltage & EMC Directives
Applicable standard: EN 60469-1

COMMERCIAL REFERENCE
> SEC STCM : Voltage regulator-dimmer block

STANDARD EQUIPMENT

- Thermal-magnetic circuit breaker
- Power contactor
- Manual/Auto two-position switch
- Type 2 surge arrester on input/output phases and neutral
- Twilight switch or astronomical clock