

ILUEST+MT

Lighting flow dimmer-stabilisers



ILUEST+MT: Savings as always with extra control

It is undeniable that regulating street lighting is a common practice for most city governments and the entities responsible for their maintenance as, without a doubt, it leads to obvious significant financial benefits. Moreover, the monitoring and control requirements related to the systems have notably increased in recent times with a demand for more and better remote maintenance and monitoring tools for the units and lighting panels that produce tangible improvements in terms of the quality and optimised management.

Salicru **ILUEST+MT** series is a next generation lighting flow dimmer-stabiliser designed to optimise the control and management of today's street lighting systems, taking communication capability to a higher level: 1) lighting control via an astronomical clock built into the LCD panel, as a standard, and lighting control in the feeder pillar, and 2) complete telemanagement of a block of units via web interface using an optional card and a GSM/GRPS model, all governed by the control software.

Applications: Affordable energy efficiency for lighting

All of these, from urban street lighting (avenues, streets, roads, ring roads, roundabouts, bridges, etc.) to lighting in industrial areas, shopping centres, car parks, hospitals, ports, railway stations or airports, can benefit from the advantages given by the **ILUEST+MT** in such important aspects as rationality in light levels, maintenance and telemaintenance of the installations and electrical consumption.



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Performances

- Electronic lighting flow adjustment by static elements and next generation microprocessor control.
- Entirely independent adjustment per phase.
- Automatic bypass per phase, independent operation, manually operation and active by default.
- Protection with automatic programming rearm due to overload and overtemperature.
- LCD display with astronomical clock, time programmer and relay to control lighting line head, as standard.
- Efficiency > 97%.
- Instantaneous stabilisation in all operating states.
- Suitable for all kinds of discharge lamps (including metal halide).
- Fine adjustments of all voltage levels and output precision improved by $\pm 2\%$.
- Selectable start-up voltage.
- Two levels of saving adjustable via LCD display.
- Significant increase in the life span of the lamps.
- Savings of over 40%.
- Easy installation alongside the feeder pillar or inside it.
- Average payback of the investment between 6 and 24 months.⁽²⁾
- SLC Greenery solution.

(2) Estimated 0.09 €/kWh rate



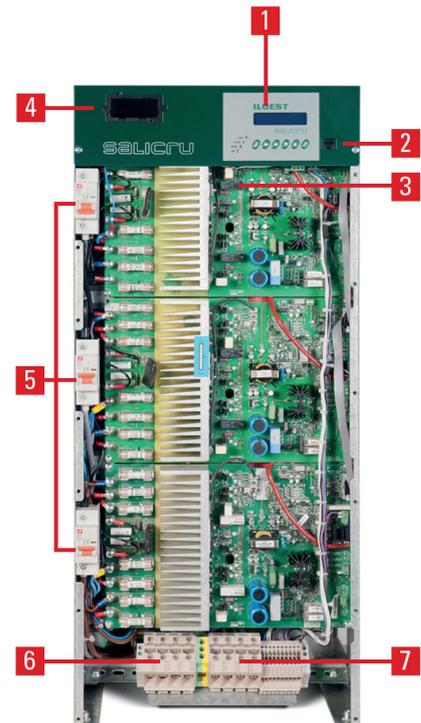
Options

- Telemangement card.
- GSM/GPRS modem.
- Manual bypass to electrically isolate the unit during maintenance work.
- Automatic bypass by contactors, per phase or common.
- Atmospheric gas discharger.
- Digital I/O card.

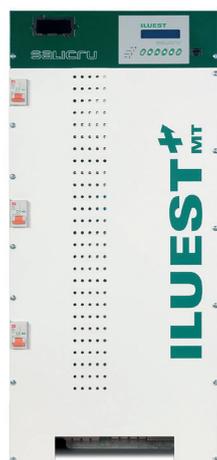
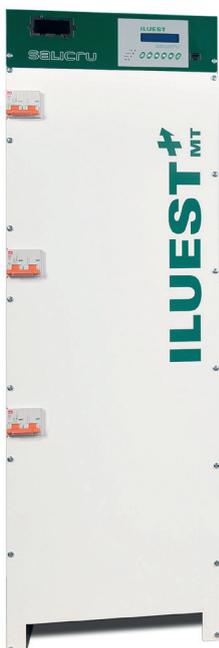
Technical support and service

- Customized studies and simulations of the saving and payback.
- Extended warranties (under request).

Connections



1. Control panel with swivel mount LCD
2. Communication BUS connector with control panel.
3. RS-232 interface.
4. Slot for telemangement card (option).
5. Input circuit breaker switch.
6. Output terminals.
7. Input terminals.



Range

MODEL INDOOR	CODE	POWER (kVA)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
NA+ 3,5-2	692BA000000	3.5	245 × 350 × 380	42
NA+ 5-2	692BA000001	5	245 × 350 × 380	43
NA+ 7,5-2	692BA000002	7.5	245 × 350 × 380	45
NA+ 10-2	692BA000003	10	245 × 350 × 380	46
NA+ 15-2	692BA000004	15	245 × 350 × 380	50
NA+ 20-2	692BA000005	20	245 × 350 × 380	67

Nomenclature, dimensions and weight for models: 230 V / 50 Hz input/output.
For models with outdoor implementation, consult.

MODEL INDOOR	CODE	POWER (kVA)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
NAT+ 7,5-4	692BA000006	7.5	245 × 350 × 800	60
NAT+ 10-4	692BA000007	10	245 × 350 × 800	80
NAT+ 15-4	692BA000008	15	245 × 350 × 800	81
NAT+ 20-4	692BA000009	20	245 × 350 × 800	82
NAT+ 25-4	692BA000010	25	245 × 350 × 800	90
NAT+ 30-4	692BA000011	30	245 × 350 × 800	95
NAT+ 45-4	692BA000012	45	245 × 350 × 800	139
NAT+ 60-4	692BA000013	60	355 × 350 × 1100	181
NAT+ 80-4	692BA000014	80	355 × 350 × 1100	204
NAT+ 100-4	692BA000015	100	350 × 800 × 1070	214
NAT+ 120-4	692BA000016	120	350 × 800 × 1070	225

Nomenclature, dimensions and weight for models: 3x400V / 50 Hz output.
For models with outdoor implementation, consult.

Dimensions



Technical specifications

MODEL		ILUEST+MT
TECHNOLOGY		Static and electronic regulation by microprocessor control
INPUT	Rated voltage	120 V, 220 V, 230 V, 240 V / 3 × 208 V, 3 × 220 V, 3 × 380 V, 3 × 400 V, 3 × 415 V (3Ph + N) ⁽⁴⁾
	Regulation range	+ 33% / - 8% nominal voltage; + 4% / - 29% saving voltage HPSV; + 10% / - 24% saving voltage MV/MH
	Rated frequency	48 ÷ 63 Hz
	Protection for phase	Single pole MCB
OUTPUT	Rated voltage	120 V, 220 V, 230 V, 240 V / 3 × 208 V, 3 × 220 V, 3 × 380 V, 3 × 400 V, 3 × 415 V (3Ph + N) ⁽⁴⁾
	Accuracy	Better than ± 2%
	Soft start voltage	Preselectable ⁽¹⁾ and adjustable
	Saving voltage	180 V (fase-neutro) ajustable para VM, VSAP, HM y fluorescencia
	Speed ramp setting	From 1 V/minute to 6 V/minute
	Response time	< 100 ms.
	Regulation	Independent per phase
	Performance	> 97%
	Phase unbalancing	100% permissible
	Permissible overload	Through LCD panel or via telemanagement card communication
	Admissible overloads	150% for 30 seconds; 120% for > 1 minute
BYPASS	Type	Static
	Features	Automatic and independent per phase
	Activation criteria	Overtemperature, overload, fault, output fault, manual activation
	Rearm	Automatic by alarm cancelling. Quantity of retries: 5; time between retries: 2 minutes
COMMUNICATION	Ports	RS-232 and RS-485 ⁽²⁾
	Monitoring	Telemanagement card ⁽²⁾
GENERAL	Operating temperature	- 40° C ÷ + 55° C ⁽³⁾
	Relative humidity	Up to 95%, non-condensing
	Maxium operating altitude	2,400 m.a.s.l.
	Acoustic noise at 1 metre	< 35 dBA
	Mean time between failures (MTBF)	60,000 hours
	Mean time to repair (MTTR)	30 minutes
IMPLEMENTATIONS	Indoor	Modules built in assembling base (chassis of sheeted steel at carbon cold) with drills to fix to the floor
	Outdoor	Indoor built in a poylester cabinet
STANDARDS	Safety	EN-60950-1
	Electromagnetic compatibility (EMC)	EN-61000-6-2; EN-61000-6-3
	Operation	UNE AENOR EA 0033-2007
	Quality and environmental management	ISO 9001 and ISO 14001

(1) Depending on type of lamp

(2) Optional

(3) 4% power derating per each degree over 45°C

(4) Ask for other settings

Information subject to change without notice.



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