

PIDbox

Patented, award-winning technology for instant ROI increase. Tackles Potential Induced Degradation (PID), boosts solar panel efficiency and prolongs lifespan.



Unique technology.

Seamless implementation with series technology into your energy system. Compatible with all types of inverters.



Solar panel boost.

Ensures increased solar panel yield. Prolongs solar panel lifespan.



Payback.

A smart investment. Payback period mostly varies between 6 months and 2 years.

Technical data

PV PANEL/ DC/AC INVERTER INPUT

Input PV voltage range	80 – 1,000 V
Output voltage to ground	Up to 1,000 V
Maximum PV current	25 A
Maximum output current in operation	5 mA

NET (AC)

Nominal AC voltage	100 to 240 V
Nominal AC	47 to 63 Hz
Power consumption in standby use	< 0,2 W
Typical power consumption in operation	8 W
Maximum power consumption	15 W

General data

Dimensions (W x D x H)	270 x 200 x 75 mm
Weight	1,100 g
Range operating temperature	- 25 to 60°C (-13 to 140°F)
PV connectors	MC4 compatible
Available for indoor (IP 30) or outdoor (IP 65) use	

Technology of the solar cell

This product works with solar cells of type N & type P. Contact iLumen if you would like to combine this product with different technology.

Other

Certificates	www.ilumen.solar
Accessories	Splitters with SUNCLIX connectors are available at request. Central Power Supply Unit (IP 65/IP 67) available at request up to a maximum of 10 PIDboxes.



iLusmart

Full control over energy consumption through the cloud.



Unique technology.

Monitors energy flow and storage. Communicates with other iLumen devices.



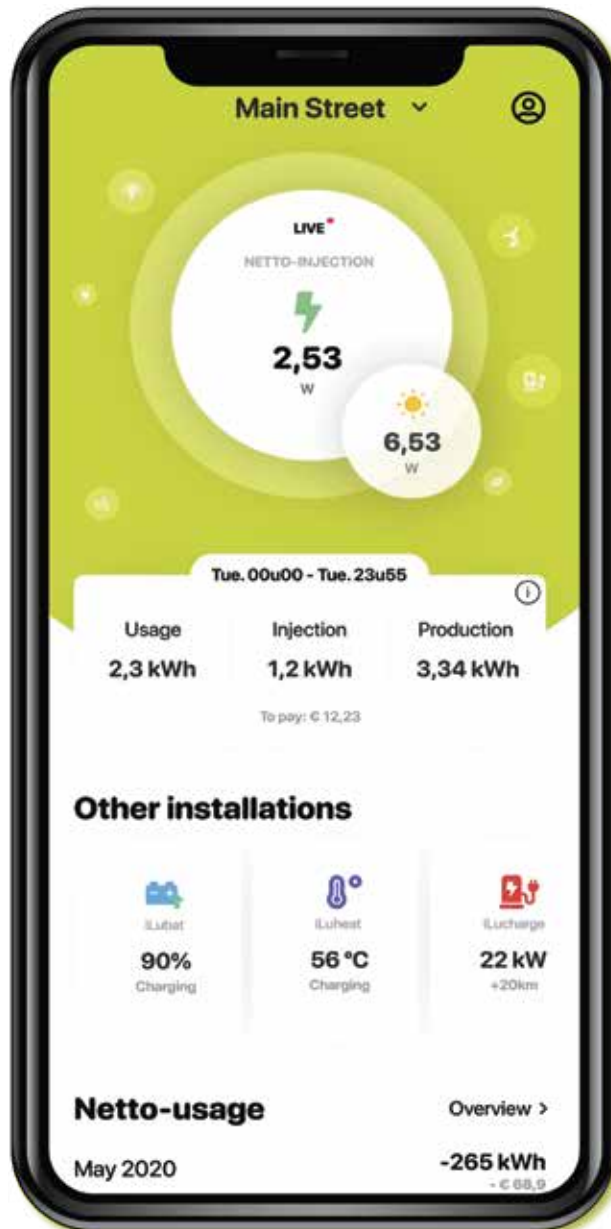
Deep insights.

Historical and real-time data with personalised tips for energy saving.



One-fits-most.

Fits most energy meters and inverters. Also suitable for non-PV installations.



iLubat

Smart energy storage to optimize cost-efficient energy consumption.



Smart storage.

Automatically stores your excess solar energy. Green energy whenever you need it.



One-size-fits-most.

Compatible with all types of solar panels. Amount of storage is tailored to personal energy consumption.



No loss of energy.

Our DC technology provides the most efficient way to store solar energy.

Technical data

ELECTRICAL CHARACTERISTICS (DC INPUT/OUTPUT)

Minimum voltage (V _{mpp})	150 VDC
Maximum voltage (V _{oc})	900 VDC
Maximum current (I _{sc})	30 ADC
Maximum charge power	1 kW
Maximum discharge power	1 kW
Connectors	MC4 (Multi-Contact original)

POWER SUPPLY (AC GRID)

Nominal voltage	110 / 230 VAC
Nominal frequency	50 / 60 Hz
Maximum AC current	0.6 A @ 115 VAC 0.4 A @ 230 VAC
Nominal power consumption in operation	4.8 W
Maximum power consumption in operation	20 W

GENERAL INFO

Dimensions (W x D x H)	409 x 421 x 473 mm
Weight (without batteries)	+/-10 kg
Weight (batteries only)	26 kg
Weight (total)	+/-36 kg
Environmental conditions	IP30 (only for use indoors)
Operation temperature	0°C to 40°C

ONE BATTERY MODULE

TWO BATTERY MODULE

Dimensions (W x D x H)	409 x 421 x 473 mm	409 x 421 x 866 mm
Weight (without batteries)	+/-10 kg	+/-18 kg
Weight (batteries only)	26 kg	52 kg
Weight (total)	+/-36 kg	+/-70 kg

Communication

Visual	Led RGB
Internet	Wi-Fi/ethernet
Communication method	Communicates based on iLusmart with digital meter

Batteries

Battery type	Lithium iron phosphate/LFP/LiFePO4
Battery voltage	51.2 VDC
Battery content	2.5 kWh @ 25°C 5 kWh @ 25°C



iLuheat

Energy storage in electric water heater to maximize locally produced energy consumption.



Smart heat storage.

Controlled by iLusmart, iLuheat regulates your electric water heater to store excess solar energy in hot water.



Save money.

Decrease your energy costs by increasing direct solar energy consumption.



Full insights.

Review temperature status and energy consumption with the iLusmart app.

Technical data

INPUT (AC)

Voltage range	230 VAC
Frequency range	50 Hz
Maximum AC current	16 A
Rated power in operation	3000 W
Maximum power in operation	3000 W
Adjustable power	0 - 3 kW

General info

Dimensions (W x D x H)	270 x 200 x 75 mm
Weight	1.100 g
Environmental conditions	IP30 (for indoor use)
Operation temperature	-5°C to 40°C
Compatibility	Only to be used in combination with electric water heater with a single phase heat element

Communication

Visual	Led RGB
Communication method	Wi-Fi/ethernet Communicates based on iLusmart with digital meter



iLucharge

Smart EV charging with excess solar power.



Smart charge.

Controlled by iLusmart, iLucharge charges your car with excess solar energy.



Remote control.

Control your EV charging and get insights into your loading history.



Charge of the wall.

Easy implementation in your energy system. A fixed cable that safely charges your EV with solar power.

Technical data

INPUT (AC)

Voltage range	230 VAC (single phase) / 400 VAC (three phase)
Frequency range	50 Hz
Maximum AC current (from the contactor to be installed)	32 A
Variable controllable charging power	6 A tot 32 A (*)
Rated power in operation	7.4 kW (single phase) / 22 kW (three phase)
Maximum power in operation	7.4 kW (single phase) / 22 kW (three phase)

(*) maximum value depends on cable and charging power of EV

General Info

Dimensions (W x D x H)	156 x 87x 50 mm
Weight (without batteries)	250 g
Environmental circumstances	IP30 (for indoor use)
Operating temperature	-5°C ~ +40 °C
Function	Peak shaving

Communication

Visual	Led RGB
Internet	Wi-Fi or ethernet
Communication method	Communicates via iLusmart with digital meter
Optional interfaces	External LED strip RFID reader

