

ILUMEN PID SOLUTION

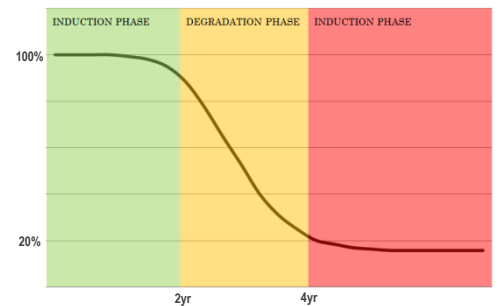
ILUMEN PID BOX MINI



What is PID?

PID or Potential Induced Degradation is a problem that occurs on many photovoltaic panels when they are exposed to a negative voltage to ground. The Illumen PID solution can regenerate panels affected with PID and prevent PID from happening. This without affecting the inverter and any loss of yield. The solution is easy to implement and compatible with all inverters and string sizes, it's the ideal solution for medium and large scale projects. The Illumen PID Box Mini can have integrated GPRS communication (to www.mylumen.be) so we can control the solution without going on site.

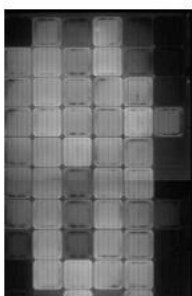
- ✓ Compatible with all inverters and string sizes
- ✓ Easy to implement
- ✓ The best solution for large scale systems
- ✓ Regenerates panels affected with PID



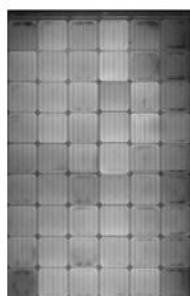
Common yield loss as result of PID problem



PID PROBLEM

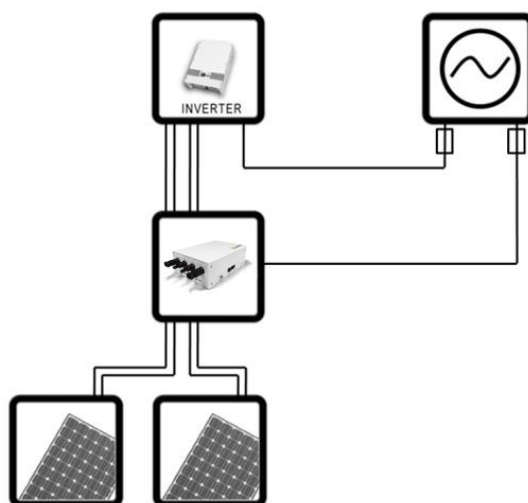


AFTER 5 DAYS



AFTER 10 DAYS

Switch example



Technical data

ILUMEN PID BOX MINI

PV array / inverter input

Input PV voltage range	80 - 1000 V
Output voltage to ground	Up to 1250 V
Maximum PV current	20 A
Maximum output current in operation	5 mA

GRID (AC)

Nominal AC voltage	100 to 240 V
Nominal AC grid frequency	47 to 63 Hz
Power consumption in standby operation	< 0.2 W
Typical power consumption in operation	8 W
Maximum power consumption	20 W

General data

Dimensions (W x D x H)	263 x 140 x 72 mm
Weight	1.440 g
Operating temperature range	-25 to 60 °C (-13 to 140 °F)
Environmental conditions	IP44 - indoor use only (IP65 optional)
PV connectors	MC4

Configuration

- One ILUMEN PID BOX MINI per 2 MPPT
- Maximum one MPPT per input (A/B)
- None of the connected solar module poles may become grounded

Communication

Optional	GPRS
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Various

Warranty	Up to 20 years
Certificates	www.ilumen.be
Registration before use	www.myilumen.be