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 Ilumen 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 Ilumen PID Box Mini can have integrated GPRS communication (to www.myilumen.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
## Technical data

### 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

### Various
- **Warranty**: Up to 20 years
- **Certificates**: [www.ilumen.be](http://www.ilumen.be)
- **Registration before use**: [www.myilumen.be](http://www.myilumen.be)