



// VIGDU P-200 PREVENTIVE & REGENERATION PID DEVICE

Potential Induced Degradation (PID) is a common phenomenon causing PV panels to rapidly lose power generation. This level of degradation can drop overall system power output by 30% and more, have crucial effect on project financing of residential, commercial and utility-base PV projects

Vigdu is an Israeli based high-tech R&D and manufacturer. After years of on-going R&D we produced a leading, unique and cost effective solution to PID.

// PRICING & ECONOMICS

- No 1. cost effective Anti PID Device
- Fast return on investment
- Low Power Consumption

// COMPETABILITY

- Suitable for all PV system
- Suitable for central inverters up to 1500Kw
- High efficiency and long operating life

// FUNCTIONALITY

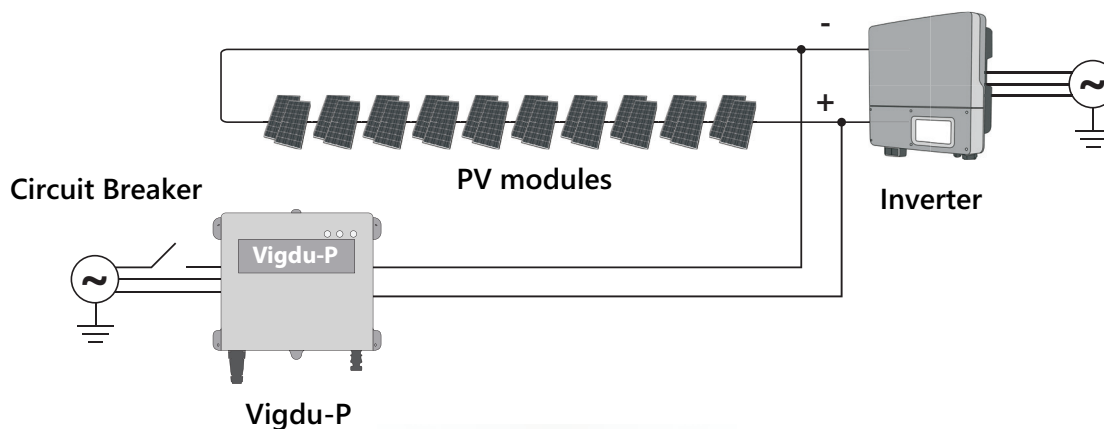
- Plug & Play
- Fully automatic operation
- Remote monitoring (Optional)

// SAFETY & CERTIFICATION

- Extensive DC & AC protection
- Smart protection functionality
- Proven technology & reliable components
- Fully analog components design for long term reliability

// BOX FEATURES

- IP 65
- Polycarbonate
- No need for grounding
- UV Resistance



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|------------------------------------------------------|----------------------------------|
| // SERIES | // DESCRIPTION |
| Vigdu-P 200 | Central Inverter up to 1500KW |
| // PV ARRAY / INVERTER INPUT | // VIGDU - P200 SERIES |
| Max. PV voltage | Up to 1000V |
| Max. PV voltage (in device operation mode) | 50V (+/- 5%) * |
| Max. PV voltage for standby | 15V (+/- 5%) * |
| Output voltage to ground | 500V / 750V / 900V (optional) |
| Max. output current | 30mA ** |
| Min insulation resistance | 30kΩ |
| Application range | Central Inverters |
| // GRID (AC) | |
| Nominal AC Input Voltage | 110V / 220V |
| AC Input Voltage Range | 90Vac ~ 120Vac / 200Vac ~ 240Vac |
| Nominal Frequency | 50 ~ 60 Hz |
| Power consumption in standby operation | < 0.5W |
| Maximum AC power consumption | 30W |
| // HOUSING | |
| Application | Outdoor / Indoor |
| Material | PC - Polycarbonate |
| Color | Light Grey |
| Mounting | Wall Mounted |
| // DIMENSIONS & WEIGHT | |
| Dimensions | 291 x 285 x 100 [mm] |
| Weight | 2.4kg |
| // SAFETY CLASS & ENVIROMENTAL CONDITIONS | |
| Safety Class | IP65 |
| Permissible ambient temperature | -25°C ~ 60°C |
| Rel.ambient humidity. non-condensing | Up to 90% |
| Altitude above sea level | Max. 2000m |
| // OUTPUT PARAMETERS | |
| PV+ pull up | MC4 socket |
| Standby to operation mode delay * | 7 – 8 min |
| Output fault control voltage (Dry contact) *** | 350Vp-p |
| Output fault control current (Dry contact) *** | 100mA (sink) |
| // CERTIFICATION | |
| EMC | EN 61326-1 (2013) |
| Safety | EN 61010-1 (2010) |
| // GENERAL | |
| Warranty | 36 month |

* Operation mode with increase potential voltage with respect to ground, only when voltage on string falls below 15V and operation delay. Disconnection with rises of PV voltage above 50V.

** Current cutoff – 30mA (current that rich above this limit for periode of 30sec. is reset a device in to "Timing Mode").

*** Dry contact with OptoMOS - output for enable or indication fault control with isolated 1.5kV. (Optional)