



// VIGDU P-100 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
- Serving up to 6 inverters with one device
- Fast return on investment
- Low Power Consumption

// COMPETABILITY

- Suitable for all PV system
- Suitable for string inverters up to 500Kw
- High efficiency and long operating life

// FUNCTIONALITY

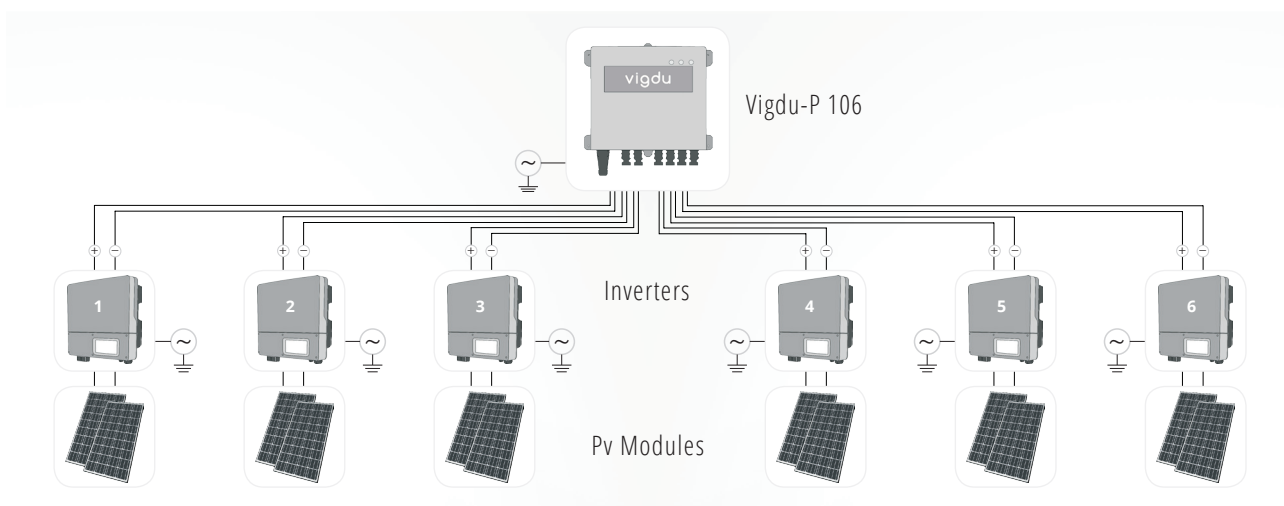
- Plug & Play
- Fully automatic operation
- Remote monitoring (Optional)

// 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



// SERIES	// DESCRIPTION
Vigdu-P 101 / 102 / 103 / 104 / 106	Connection to 1 / 2 / 3 / 4 / 6 Inverters
// PV ARRAY / INVERTER INPUT	// VIGDU - P100 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 (optional)
Max. output current	10.2mA
Min insulation resistance	49kΩ
Application range	Central / String 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	12W
// 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.

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