



XENIT
by ATEX

MADE IN ITALY

.APID NG

Revamping in **N-TYPE** solar cell modules which require
grounding of the positive pole.



XENIT.IT

Xenit is a division of ATEX INDUSTRIES for Photovoltaic and Safety.

Replacing the inverters in N-TYPE solar cell modules

In photovoltaic systems with N-TYPE modules that **require grounding of the positive pole, the problem is replacing the inverters with a new generation**, which however do not allow this type of connection. The consequence, by installing a standard inverter without positive ground, is the progressive deterioration of the PV modules due to the PID phenomenon, with consequent loss of power and also the need for their replacement.

PID effect and loss of power in N-Type photovoltaic modules

In this image, taken with the electroluminescence technique, you can see the cells of the photovoltaic modules, which **are gradually shutting down**. PID effect on N-TYPE photovoltaic modules, after replacing the **inverter with one of the latest generation without positive ground**.



The solution

APID-NG

Maintain the efficiency of N-TYPE modules

APID-NG allows the replacement of the old inverter with a standard one of any brand, maintaining the current N-TYPE modules and their efficiency. APID-NG is suitable for any size of plant and it's easy to install.



How APID-NG works

Features

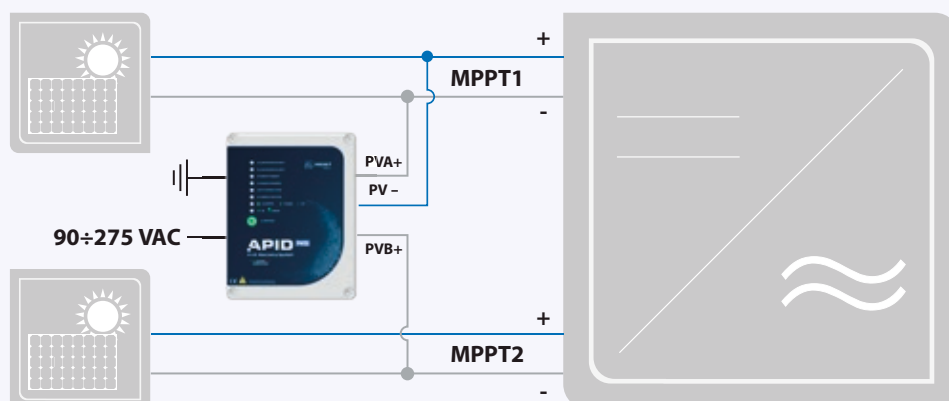


APID-NG

Connection of APID-NG for revamping of a plant with N-TYPE modules

PHOTOVOLTAIC STRINGS N-TYPE

NEW GENERATION INVERTERS WITHOUT POSITIVE GROUND



Functionality and benefits



Prevention

It allows you to replace the inverter without having to change all the N-Type photovoltaic modules, preventing the occurrence of the PID phenomenon.



Profitability

Stops the economic damage caused by Potential Induced Degradation and ensures the profitability of the solar system.



Power

Stops the loss of power in the solar system.



Regeneration

Regenerates the power of solar systems by up to 100% in around 30 days.



Protection

Immediately protects new systems with PID-Free modules from a possible drop in power by up to 5%.



Resistance

Measures the insulation resistance.





FOR PV MODULES WITH MONOCRYSTALLINE CELLS
(needing positive pole earthing)

| APID-NG | |
|---|--|
| | N-Type |
| MPPT OUTPUTS | 2 |
| POWER | 90...275 Vac |
| ABSORPTION | Standby 0.5w, 2W Operation, 20W Max |
| INTERNAL GENERATOR | Voltage with output resistance of 165K Max. 1000 Vdc output power 2.7mA Max. at 1000v – 3.9mA Max. at 800v – 6.3mA Max. at 400V – 8mA in short circuit |
| AUTOMATIC MANAGEMENT OF OPERATION AND OUTPUT VOLTAGE | ✓ |
| RELAY OUTPUT WITH NC AND NA CONTACTS FOR ALARM SIGNALLING | ✓ |
| CLOCK/CALENDAR WITH 6-MONTH BACKUP | ✓ |
| ANTI-CONDENSATION VALVE | ØM12 F16 litres/hour at 0.07 bar |
| CONNECTIONS TO STRINGS | MC4 |
| OPERATING TEMPERATURE | -20 °C/+50 °C |
| WEIGHT | 950 g |
| CONTAINER TYPE | IP56 |
| DIMENSIONS(L X H X D) | 240 x 190 x 90 mm |



| LCDAM08 | |
|-----------------------|---|
| Display | Backlit 16x2 LCD display with 4 keys |
| BUTTONS | no.4: Prog-Exit-Up-Down |
| HOUSING | 6-module HOUSING, DIN rail or wall mounting |
| OPERATING TEMPERATURE | From -10 °C to +50 °C |
| DIMENSIONS(L X H X D) | 105 x 110 x 65 mm |
| WEIGHT | 180 g |



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