

Repair & Refurbishment

Solar Inverters (String & Centralized)

Save up 70% on recovery costs of your PV Plant!



In **53%** of the cases found, failures of a photovoltaic system depends on a fault in the DC/AC power converters (inverters); over a time span of 25 years, the replacement of the inverter fleet can generate a decrease in investment profitability (IRR) of approximately **2%**¹.

Choosing to **repair and/or refurb** faulty inverters, significantly extending their useful life, therefore, represents a **good choice**, both from an economic and environmental point of view.

By combining the expertise of our **specialized electronic technicians** with decades of **experience in the photovoltaic sector**, in the field of repairs, STI Repair is able to offer the following services:

- Troubleshooting & Diagnostic**
- Fault Detection and Localization**
- Fault components Replacement & Repair**
- Final Test**
- Technical Support & Assistance (remotely/on flied)**

REFURBISHMENT BENEFITS

PV solar inverters' Refurbishment it's a process based on the replacement of "passive" components subject to aging (physical wear) and aimed at bringing the converter back to operating conditions like new. Here are the main advantages of Refurbishment:

- ✓ **24 months warranty on overall solar inverter**
- ✓ **-70% shutdown (prevetative maintenance)***
- ✓ **Ø (zero) bureaucratic expenses/costs (GSE)**
- ✓ **Ø (zero) costs for electronic wastes disposal**
- ✓ **-5/10% plant maintenance costs***
- ✓ **+10/20% technical life extension***
- ✓ **+ 15/25 % PV plant productivity rate***

**Predictive Maintenance" 2017, July - Deloitte

¹ "Effect of Inverter Failure on the ROI of Solar Systems, 2017 - IEE

CASE HISTORY

PVI Module 55 kW

* Workforce costs NOT included.

	Replace	Repair
Replace/Repair Costs (€)*	7.820	2.400
"shutdown" span (day)	30	7
Loss Production (kWh)	8.700	2.030
"shutdown" cost (€)	7.920	2.423

REPAIR Vs REPLACEMENT

69% Saving

This simulation was made for illustrative purposes only. The information and / or data it contains are the result of simulations based on company databases and data available in the literature of the sector. We decline all responsibility for the consequences deriving from incorrect use.

DATI DI INPUT

Location	ITALY
kWh/kWp/day**	290
Tariff CE(III)	0,289 €/kWh
RID Price	0,040 €/kWh

** Fonte PVGIS - July

**PRODUCED BY ANYONE,
REPAIRED BY US.**

The list of brands listed below is to be considered representative only of the most common brands found on the market; after technical examination, we are able to repair photovoltaic inverters of any brand and / or manufacturer.

**SMA | FRONIUS | SIEMENS | DANFOSS | OMRON | SCHNEIDER ELECTRIC | ABB | INGTEAM
AEG | SANTERNO | ANSWER DRIVES | CONVERTEAM | AROS | FRIEM | GAMESA | SIEL | SOCOMEC
EMERSON | EATON | BONFIGLIOLI | ASTRID | FIMER | XANTREX | STECA | GE | HELIOS**

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OUR PRICE LIST!**



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