



**PROTECT WHAT REALLY MATTERS
TO YOUR CUSTOMERS**

CYBERSECURITY GUIDE

for secure PV installations in homes and companies

Solar energy is a smart investment – but without the right protection, PV systems can become an entry point for cyber threats. As installations grow more connected, they offer new opportunities for hackers to disrupt operations, steal data, and even manipulate energy flows. But the risks go beyond system failures.

DID YOU KNOW CYBERCRIMINALS CAN EXPLOIT PV SYSTEMS?



TARGETED BURGLARY

Hackers can track energy production and usage patterns to identify when a home or business is unoccupied and what valuable appliances it holds.



INVOLVEMENT IN CYBERCRIME

Stolen credentials and hijacked systems can be used for criminal activities.



DISCLOSURE OF SENSITIVE COMPANY DATA

For commercial customers, a compromised PV system could expose operational details, leading to financial and legal consequences.



**TURN THE PAGE FOR
KEY SECURITY
QUESTIONS TO ASK
YOUR SUPPLIERS.**



- ? Is the system protected against hacking?
- ? Are strong, enforced passwords required?
- ? Are security updates automatic?

SMA's security solution:

- ✓ **Complex passwords** enforced during commissioning
- ✓ **Automated firmware updates** – always up to date



- ? Is customer data secure?
- ? Where is it stored?
- ? Does it comply with EU cybersecurity laws?

SMA's security solution:

- ✓ **Data stored exclusively in the EU**, protected under NIS2 and GDPR regulations
- ✓ ISO 27001 certified security for **Sunny Portal powered by ennexOS** and ETSI EN 303 645** certified
- ✓ All data storage software **developed by SMA**

- ? Is communication encrypted?
- ? Does it prevent unauthorised access?

SMA's security technology:

- ✓ **Speedwire Encrypted Communication (SEC)** – SMA's patented, built-in encryption*
- ✓ Interfaces and ports **strictly limited to what is required** and operating systems **without unnecessary options**

*SEC can be activated in every SMA device of the SMA Home Energy Solution and the SMA Commercial Energy Solution, except the Sunny Tripower CORE2

**ETSI EN 303 645 defines security requirements for connected devices in the Internet of Things (IoT) domain for residential and business devices.

WHY SMA?

Security your customers can rely on!

Choosing SMA means offering your customers more than just energy – it means offering peace of mind:

- Your customers' personal or business data stays private, even if their local network is compromised.
- Their PV systems remain protected as cybersecurity standards evolve.
- SMA protects over one million systems with secure access, encrypted communications, and European-based data storage.

**RELY ON INDUSTRY-LEADING CYBERSECURITY. STAY PROTECTED.
CHOOSE SMA.**

