

**GUARDEXY**



# SHIELD FOR YOUR PHOTOVOLTAICS

datasheet



The First Cybersecurity Protection for PV Systems | Made in Czech Republic

# About Guardexy

Guardexy is a specialized hardware firewall for photovoltaic inverters.

It protects the inverter's external communication against cyberattacks, unauthorized access, and malicious requests. The device physically filters all incoming traffic before it reaches the inverter. Its plug-and-play design requires minimal configuration, making it suitable even for end-users to install on their own.



Protect your solar installation without disrupting production



A shield that protects both inbound and outbound - everything else is blocked



Easy installation, plug-and-play solution



European reliability that safeguards even the most affordable Chinese inverters

## KEY FEATURES

- Hardware firewall (dedicated computing unit, zero dependency on the inverter)
- DPI + SPI (Deep Packet Inspection + Stateful Packet Inspection)
- Application whitelist (Alfred, Loxone, Home Assistant, etc.)
- Physical barrier between the internet and the inverter
- Eliminates unknown commands and unauthorized parameter changes
- Adjustable command-granularity control (license-dependent)
- No need for inverter manufacturer's cloud access

## TECHNICAL SPECIFICATIONS

### Power Supply

- 24 V DC (included adapter)
- Power consumption:  $\leq 7$  W

### Communication Interfaces

- Wi-Fi 802.11 b/g/n (2.4 GHz, WPA/WPA2)
- Ethernet up to 1000 Mbps (1 Gbps)

### Operating Conditions

- Operating temperature:  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Suitable for outdoor cabinet installations

### Dimensions

- $95 \times 65 \times 30$  mm (L x W x H)

## SECURITY MODES (PROTECTION LEVELS)

### BASIC MODE

*no license required*

- Completely blocks any parameter changes of the inverter
- Only standard operational behavior is allowed
- Remote configuration of the inverter is not possible
- The only mode available when using Guardexy without a license

### STANDARD MODE

*with active license*

- Only verified, known, and safe commands are allowed
- Suitable for integration with automation systems (Loxone, Home Assistant, Leviton, etc.)
- All other commands are blocked

### ADVANCED MODE

*with active license*

- The user can define exactly which parameters can be changed on the inverter
- Individual command granularity  $\rightarrow$  ideal for advanced installations
- Highest level of security  $\rightarrow$  recommended for municipalities, companies, and critical infrastructure