

# Home Solar Energy System Cybersecurity Guidelines

The smart inverter manages the flow of electric energy within a home or small business and with the local electric utility. A cyber compromise of the smart inverter can negatively impact the home or small business as well as the local electric grid.



1

## Change Default Passwords and Credentials

- Change default or device-specific passwords to unique, secure passwords
- Change other default credentials to unique, secure values
- Use multi-factor authentication when available

2

## Use Role-based Access Control (RBAC)

- Create user accounts
- Create system roles
- Assign permissions to roles
- Assign user accounts to roles
- Disable unused accounts



3

## Configure the Recording of Events in a Log

- Enable and configure logging
- Setup external location for logs

4

## Update Software Regularly

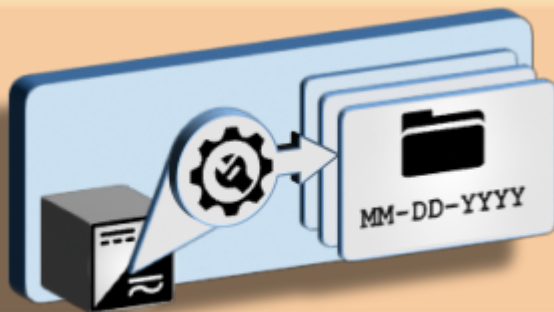
- Download and verify newest software/firmware versions
- Update device with current software/firmware versions



5

## Backup and Restore System Information

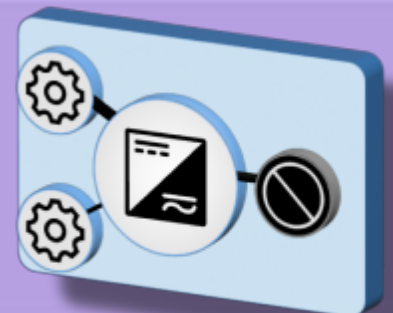
- Download device configuration
- Download all available configurations
- Store configuration in retrievable location



6

## Disable Unused Features

- Disable unused interfaces, features, etc.
- Enable security features



7

## Protect the Communications Connections

- Isolate the device from personal networks

