

MANUFACTURER'S DECLARATION

EMS Functionality, Backup / Off-Grid Operation and Cybersecurity of DEYE Residential Energy Storage Systems

Manufacturer: Ningbo Deye Inverter Technology Co., Ltd.

Brand: DEYE

Ningbo Deye Inverter Technology Co., Ltd. hereby confirms that compatible DEYE residential energy storage systems consisting of a DEYE hybrid inverter, battery energy storage system with BMS, and Smart Meter/CT metering system provide integrated Energy Management System (EMS) functionality as well as backup / off-grid operation capability.

This declaration applies in particular to the following DEYE hybrid inverter families:

SUN-(5–12)K-SG04LP3-EU

SUN-(3–12)K-SG05LP3-EU-SM2

SUN-(14–20)K-SG05LP3-EU-SM2

SUN-(3–8)K-SG06LP3-EU-CM2

SUN-(3–8)K-SG06LP3-EU-BM2

1. ENERGY MANAGEMENT SYSTEM (EMS)

The EMS functionality is provided by energy management functions integrated into the DEYE hybrid inverter operating in conjunction with the battery/BMS and Smart Meter/CT.

No additional external EMS controller is required to provide the core EMS functionality.

- automatic control of battery charging and discharging,
- monitoring of PV generation, energy consumption, battery State of Charge (SOC), and grid energy flows,
- optimisation of energy self-consumption,
- automatic management of energy flows between the PV system, battery storage, loads and the public grid,
- scheduled and Time-of-Use (TOU) operation,
- control and limitation of energy export to the public grid.

2. BACKUP / OFF-GRID OPERATION

The Manufacturer confirms that a properly selected, installed and configured DEYE system provides backup / off-grid operation capability in the event of a failure or loss of the public electricity grid.

In such an event, a compatible DEYE hybrid inverter can supply designated backup loads using energy from the battery storage system and/or the PV installation, subject to the technical specifications and configuration of the respective inverter model.

Backup / off-grid functionality is an integral function of the compatible DEYE hybrid system and **does not require an additional off-grid inverter.**

3. CYBERSECURITY

Ningbo Deye Inverter Technology Co., Ltd. confirms that the above-mentioned product families are designed and placed on the market taking into account the applicable European Union cybersecurity requirements.

Depending on the specific product model and the scope of the applicable Declaration of Conformity or certificate, the relevant requirements include in particular:

- Directive 2014/53/EU (RED), Article 3.3(d), (e) and (f), (EN 18031-1:2024)

- ETSI EN 303 645 V2.1.1:2020,
- applicable requirements arising from delegated acts under the Radio Equipment Directive,
- applicable requirements of Regulation (EU) 2024/2847 – Cyber Resilience Act (CRA), in accordance with their scope and applicable dates,
- applicable requirements of Directive (EU) 2022/2555 – NIS2, where applicable.

Cybersecurity compliance of individual DEYE products is supported by the applicable EU Declarations of Conformity, Certificates of Conformity and Cybersecurity Test Reports, including, where applicable, assessment against EN 18031-1:2024 and RED Article 3.3(d), (e) and (f).

For communication devices used within DEYE systems, cybersecurity compliance is supported by the documentation applicable to the respective device model, including, where applicable, EN 18031-1:2024 and ETSI EN 303 645.

4. MANUFACTURER'S CONFIRMATION

The Manufacturer hereby confirms that a properly selected, installed and configured residential system consisting of:

DEYE HYBRID INVERTER + BATTERY/BMS + SMART METER/CT

provides:

- integrated Energy Management System (EMS) functionality,
- automatic energy flow management,
- backup / off-grid operation capability,
- cybersecurity functionality in accordance with the scope of the applicable declarations, certificates and regulatory requirements.

No additional external EMS controller is required to provide the core EMS functionality.

Ningbo Deye Inverter Technology Co., Ltd.

Name: Bard Dai

Position: Safety Manager

Date: 07/10/2026

Signature / Company Stamp:  _____