

Standard **ISO 40 7:20 8**

Certificate Registr. No. **CO 50527031 0001**

Dáseu un the information we have received and evaluated that:

- Programme: Voluntary PCR scheme
- Product Category Rule: N/A
- Review Criteria: ISO 14064-3:2006
- Organizational Boundary: Operational Control
- Level of Assurance: Reasonable
- Materiality: 5%
- Global warming potential (GWP): IPCC 2013
- Analysis method: IPCC 2013 GWP 100a v1.02
- LCA software or database: SimaPro 9.1.0 / Ecoinvent 3.7
- Product: PV module
- Boundary: Cradle to Gate
- Data period: 2020.11.01~2021.10.31
- Functional / Declared unit: one kW of N type PV Module
- Model No.: 182 module series (Average data got from JKMXN-60HL4-(V), JKMXN-72HL4-BDV, JKMXN-72HL4-(V), JKMXN-78HL4-BDV, JKMXN-54HL4-(V))
- Carbon emissions (cradle to gate): 402.82 kg CO<sub>2</sub>e/kW

**Validity:**

This certificate is valid from 2022-03-29 until 2024-03-28.

This certificate only verified the target product / service carbon footprint, this verification does not include review of external communication.

2022-03-29

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verification and validation.

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