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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 46340-2025

**Green product assessment - Photovoltaic modules and
inverters**

绿色产品评价 光伏组件及逆变器

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Industry and Information Technology of the People's Republic of China and the National Green Product Evaluation Standardization General Group. This document is under the jurisdiction of the National Technical Committee on Standardization of Solar Photovoltaic Energy Systems (SAC/TC90). This document was drafted by: China Electronics Technology Standardization Institute, China National Institute of Standardization, and Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences. Tongwei Co., Ltd., Trina Solar Co., Ltd., China Electric Power Research Institute Co., Ltd., Hefei University of Technology, JA Solar (Yangzhou) Solar Energy Technology Co., Ltd., State Grid Hebei Electric Power Co., Ltd., Hangzhou Hemai Power Electronics Co., Ltd., Longyan Energy Technology (Hangzhou) Co., Ltd., Ningbo Deye Variable Frequency Technology Co., Ltd., China Quality Certification Center Co., Ltd., Jinzhou Sunshine Energy Co., Ltd. Sungrow Power Supply Co., Ltd., Shanghai Chint Power Systems Co., Ltd., Taizhou Zhonglai Optoelectronic Technology Co., Ltd., and GCL System Integration Technology Co., Ltd. Limited Liability Company, TBEA Xinjiang New Energy Co., Ltd., Xiamen Kehua Digital Energy Technology Co., Ltd., China Quality Certification Center Limited The company's Nanjing branch, Canadian Solar (Suzhou) Co., Ltd., SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd., and Jianke Environmental Energy Technology Co., Ltd. Limited Liability Company, Wuxi Inspection, Testing and Certification Institute, Beijing Jianheng Certification Center Co., Ltd., Jiangsu Huiren New Energy Technology Co., Ltd., China China National Testing & Inspection Holding Group Co., Ltd., Zhejiang Airo Network Energy Technology Co., Ltd., and Zhejiang Jinbei Energy Technology Co., Ltd. Company, Helio New Energy Co., Ltd. The main drafters of this document are. Liu Yu, Zhu Yi, Guan Qi, Pei Huichuan, Pan Jingjin, Zhuang Tianqi, Zhao

Litao, Ding Ning, Xu Bingsheng, Zhao Lei, and Li Xuebing. Zhu Zihan, Jin Xin, Lü Shuai, Fu Yonggao, Cao Xueyuan, Zeng Xiang'an, Xie Manqian, Hu Jiaqi, Li Xinyu, Zhou Yanfang, Li Peng, Zhou Weiqing, Li Chao, Yang Bo, Yu Weiwei, Qiu Aiqi, Zhao Yi, Kang Wei, Li Junchao, Zhang Hai, Liu Yuying, Mai Wei, Chen Yadan, Wang Guangxi, Cai Huan, An Chao, Zhang Ge, Wang Shuping He Guiying, Su Rui, Lin Zhenhuang, Chen Yu, Ye Lei, Zhang Jun, Zhu Mingjie, Li Bojia, Huang Zhulian, Miao Lei, Wang Yi, Wang Ting, Zhu Hua, Wang Dong, Gao Danni Shi Xinmiao, Dong Huazhan, and Cui Yongxiang. Green Product Evaluation. Photovoltaic Modules and Inverters

1 Scope

GB/T 46340-2025 is the Chinese national standard covering assessing a module or inverter as a green product - the energy and emissions of manufacture against the energy it will generate, the materials and the restricted substances, the durability and the declared lifetime, and the recyclability at end of life. First edition, under the Ministry of Industry and Information Technology. In force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026.

This document specifies the evaluation requirements for green products such as photovoltaic modules and inverters, and describes the evaluation methods. This document applies to the green product evaluation of photovoltaic modules and photovoltaic inverters.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 191 Pictorial Symbols for Packaging and Storage

GB/T 2297 Terminology for Solar Photovoltaic Energy Systems

GB/T 9535.1 Design qualification and type approval of ground-mounted photovoltaic modules - Part