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Measuring method of output power for crystalline solar PV modules

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Reference number : JIS C 8914 : 1998 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently, **JIS C 8914**:1989 is replaced with **JIS C 8914**:1998.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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Measuring method of output power for crystalline solar PV modules

Introduction In the application of a Standard, normative references to the Standard shall be simultaneously referred to. It is often necessary to compare with similar Standards, if any.

This Japanese Industrial Standard has been prepared based on **IEC 60891** *Procedures for temperature and irradiance corrections to measured I-V characteristics of crystalline silicon photovoltaic devices* published in 1987, and **IEC 60891** *Amendment No. 1* published in 1992, without any modification in technical contents.

1 Scope This Japanese Industrial Standard specifies the method for measuring output characteristics of terrestrial flat plate non-concentrating crystalline solar PV modules intended for power generation (hereafter referred to as "solar cell modules") by means of the solar simulators for crystalline solar cells and modules specified in **JIS C 8912** (hereafter referred to as "solar simulators") using the secondary reference crystalline solar cells specified in **JIS C 8911** (hereafter referred to as "secondary reference solar cells").

Remarks : The normative references to this Standard are given below.

JIS C 1102-1 *Direct acting indicating analogue electrical measuring instruments and their accessories Part 1 : Definitions and general requirements common to all parts*

JIS C 1102-2 *Direct acting indicating analogue electrical measuring instruments and their accessories Part 2 : Special requirements for ammeters and voltmeters*

JIS C 8911 *Secondary reference crystalline solar cells*

JIS C 8912 *Solar simulators for crystalline solar cells and modules*

JIS C 8913 *Measuring method of output power for crystalline solar cells*

JIS C 8916 *Temperature coefficient measuring methods of output voltage and output current for crystalline solar cells and modules*

JIS Z 8103 *Glossary of terms used in instrumentation*

JIS Z 8113 *Glossary of lighting terms*

JIS Z 8120 *Glossary of optical terms*

2 Definitions For the purpose of this Standard, in addition to the definitions specified in **JIS C 1102-1**, **JIS C 1102-2, JIS C 8912, JIS C 8913, JIS C 8916, JIS Z 8103, JIS Z 8113** and **JIS Z 8120**, the following principal definitions apply.

(1) **solar cell module** An assembly having prescribed output characteristics which is so constructed that plural solar cells connected in series and/or parallel are contained in an enclosure for resistance to environment and external terminals are provided.