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(JEMA)

**Structural design and installation
for residential photovoltaic array
(roof mount type)**

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by the Japan Electrical Manufacturers' Association (JEMA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS C 8956** : 2004 is replaced with this Standard.

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Structural design and installation for residential photovoltaic array (roof mount type)

Introduction

This Japanese Industrial Standard was established in 2004 and has been revised at this time for enhancing the safety aspects of the specification related to installation of the system.

No International Standard corresponding to this Standard has been established at this point.

1 Scope

This Standard specifies the structural design and installation of the residential roof mount type photovoltaic power generating system with an output of less than 20 kW (hereafter referred to as the “arrays”), in which the photovoltaic array is mounted on a flat roof or a grade roof.

This Standard shall be applied to the crystal-array system.

This Standard does not apply to the following arrays.

- a) Concentrating array and tracking array
- b) Sunlight and solar heat hybrid type array
- c) Array serving the function as building materials such as roofing materials
- d) Array comprised of AC modules

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS C 8918 *Crystalline solar PV modules*

JIS C 8955 *Design guide on structures for photovoltaic array*

JIS C 8960 *Glossary of terms for photovoltaic power generation*

JIS C 8981 *Standards for safety design of electrical circuit in photovoltaic power generating systems for residential use*

3 Terms and definitions

For the purposes of this Standard, the terms and definitions given in **JIS C 8955** and **JIS C 8960**, and the following apply.

3.1 roof mount type

a system of array in which photovoltaic modules (hereafter referred to as “modules”) are installed on an ordinary roof via structures

However, it does not serve a function of roof material.