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## Photovoltaic (PV) arrays — Design requirements

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In the event of any doubts arising as to the contents,  
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## Contents

	Page
Introduction .....	1
1 Scope .....	1
2 Normative references .....	1
3 Terms, definitions, symbols and abbreviated terms .....	4
3.1 Terms, definitions and symbols .....	4
3.2 Abbreviations .....	12
4 Compliance of low-voltage electrical installation of PV system .....	12
5 PV array system configuration .....	12
5.1 General .....	12
5.2 Mechanical design .....	24
6 Safety issues .....	26
6.1 General .....	26
6.2 Protection against electric shock .....	27
6.3 Protection against thermal effects .....	27
6.4 Protection against the effects of insulation faults .....	28
6.5 Protection against overcurrent .....	35
6.6 Protection against effects of lightning and overvoltage .....	39
7 Selection and erection of electrical equipment .....	41
7.1 General .....	41
7.2 PV array maximum voltage .....	42
7.3 Component requirements .....	43
7.4 Location and installation requirements .....	53
8 Acceptance .....	64
9 Operation/maintenance .....	64
10 Marking and documentation .....	64
10.1 Equipment marking .....	64
10.2 Requirements for signs .....	64
10.3 Identification of a PV installation .....	64
10.4 Labelling of combiner boxes and power collection boxes .....	64
10.5 Labelling of disconnectors .....	65
10.6 Documentation .....	65
Annex A (informative) Examples of signs .....	66
Annex B (informative) Examples of system functional earthing configurations in PV arrays .....	67

Annex C (informative) Blocking diode .....	69
Annex D (informative) Arc fault detection and interruption in PV arrays .....	74
Annex E (normative) DVC limits .....	76
Bibliography .....	77
Annex JA (informative) Comparison table between JIS and corresponding International Standard .....	79

## Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Act. This Standard replaces **JIS C 8951** : 2011, **JIS C 8952** : 2011 and **JIS C 8954** : 2006, which have been withdrawn.

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# Photovoltaic (PV) arrays — Design requirements

## Introduction

This Japanese Industrial Standard has been prepared based on IEC 62548 : 2016, Edition 1, with some modifications of the technical contents.

In this Standard, those subclauses, figures and tables whose numbers are followed by capitalized Latin letters (A, B, C...) contain requirements not included in the corresponding International Standard. The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

## 1 Scope

This Standard sets out design requirements for photovoltaic (PV) arrays with standard open circuit voltage of 30 V to 750 V including DC array wiring, electrical protection devices, switching and earthing provisions. The scope does not include energy storage devices, power conversion equipment, loads, or the following arrays.

- a) Focusing and tracking arrays
- b) Hybrid arrays that use both solar rays and solar heat
- c) Arrays that function as building materials such as roofing
- d) Arrays consisting of AC modules
- e) Significantly small PV arrays of less than 100 W and less than 35 V DC open circuit voltage at standard test conditions (STC)

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

IEC 62548 : 2016 *Photovoltaic (PV) arrays — Design requirements*  
(MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and JIS are IDT (identical), MOD (modified), and NEQ (not equivalent) according to ISO/IEC Guide 21-1.

## 2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall be applied and the revisions (including amendments) made thereafter shall not be applied. For those without the indication of the year, the most recent editions (including amendments) shall be applied.

JIS C 0365 Protection against electric shock — Common aspects for installation