



# MALAYSIAN STANDARD

MS 1837:2018

## Installation of grid-connected photovoltaic (PV) system (Second revision)

ICS: 27.160

Descriptors: installation, grid-connected, photovoltaic, system

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## **Committee representation**

The Industry Standards Committee on Generation, Transmission and Distribution of Energy (ISC E) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia  
Department of Standards Malaysia  
Federation of Malaysian Manufacturers  
Jabatan Kerja Raya Malaysia  
Malaysia Nuclear Power Corporation  
Malaysian Association of Standards Users  
Malaysian Cable Manufacturers Association  
Malaysian Electrical Appliances and Distributors Association  
Malaysian Green Technology Corporation  
Persatuan Kontraktor Elektrikal dan Mekanikal Melayu Malaysia  
Sabah Electricity Sdn Bhd  
Sarawak Energy Berhad  
SIRIM Berhad (Secretariat)  
SIRIM QAS International Sdn Bhd  
Suruhanjaya Komunikasi dan Multimedia Malaysia  
Suruhanjaya Tenaga  
Sustainable Energy Development Authority Malaysia  
Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
The Institution of Engineers, Malaysia  
Universiti Malaya

The Technical Committee on Renewable Energies which supervised the development of this Malaysian Standard consists of representatives from the following organisations:

Association of Consulting Engineers Malaysia  
Bank Pembangunan Malaysia Berhad  
Department of Environment  
Felda Palm Industries Sdn Bhd  
Forest Research Institute Malaysia  
Independent  
Jabatan Pengurusan Sisa Pepejal Negara  
Malaysian Association of Standards Users  
Malaysian Photovoltaic Industry Association  
Sabah Electricity Sdn Bhd  
Sarawak Energy Berhad  
Sime Darby Plantation Sdn Bhd  
SIRIM Berhad (Industrial Centre of Innovation - Energy management)  
SIRIM Berhad (Secretariat)  
Suruhanjaya Tenaga  
Sustainable Energy Development Authority Malaysia  
Tenaga Nasional Berhad  
The Institution of Engineers, Malaysia  
TNB Research Sdn Bhd  
Universiti Teknologi MARA  
Universiti Tenaga Nasional

**Committee representation** *(continued)*

The Working Group on Solar Photovoltaic Systems which developed this Malaysian Standard consists of representatives from the following organisations:

Jabatan Kerja Raya Malaysia  
Malaysian Photovoltaic Industry Association  
Malaysian Solar Resources  
Manipal University  
Sabah Electricity Sdn Bhd  
Sarawak Energy Berhad  
SIRIM Berhad (Industrial Centre of Innovation - Energy management)  
SIRIM Berhad (Secretariat)  
Suruhanjaya Tenaga  
Sustainable Energy Development Authority Malaysia  
The Electrical and Electronics Association of Malaysia  
TNB Energy Services Sdn Bhd  
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Universiti Malaya  
Universiti Teknologi Malaysia  
Universiti Teknologi MARA  
Universiti Tenaga Nasional  
Universiti Tunku Abdul Rahman

## **Foreword**

This Malaysian Standard was developed by the Working Group on Solar Photovoltaic Systems under the authority of the Industry Standards Committee on Generation, Transmission and Distribution of Energy.

Major modifications in this revision are as follows:

- a) incorporation of new requirement on “Scope” in Clause 1;
- b) incorporation of new clauses on “Normative references” in Clause 2;
- c) incorporation of new clauses on “Terms and definitions” in Clause 3;
- d) incorporation of new clauses on “Abbreviations” in Clause 4;
- e) incorporation of new figures on “General requirements” in Clause 5;
- f) incorporation of new requirement on “Protection requirements” in Clause 6;
- g) incorporation of new requirement on “Wiring requirements” in Clause 7;
- h) incorporation of new requirement on “Component requirements” in Clause 8;
- i) incorporation of new requirement on “Component requirements” in Clause 9;
- j) incorporation of new requirement on “Marking requirements” in Clause 10;
- k) incorporation of new requirement on “Commissioning” in Clause 12; and
- l) incorporation of new figures in “Annex B”.

This Malaysian Standard cancels and replaces MS 1837:2010, *Installation of grid-connected photovoltaic (PV) system (First revision)*.

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.