CODE OF PRACTICE


POWER CONVERTERS


SWITCHGEAR AND CONTROLGEAR

4. SLS 1554 - Sri Lanka Standard Specification for Low-Voltage Switchgear and Controlgear

DC CABLE


PHOTOVOLTAIC (PV) MODULES


**PERFORMANCE TESTING AND ENERGY RATING**


10. **SLS 1637: 2019** Sri Lanka Standards Specification for Connectors for DC-application in photovoltaic systems – Safety requirements and tests


14. **SLS 1472 SRI LANKA STANDARD FOR PROTECTION AGAINST LIGHTNING**

   a) **PART 1: 2013 // IEC 62305 - 1: 2010 – GENERAL PRINCIPLES**
   
   This part of IEC 62305 provides general principles to be followed for protection of structures against lightning, including their installations and contents, as well as persons.
b) **PART 2: 2013 // IEC 62305 - 4: 2010 – RISK MANAGEMENT**
   This part of IEC 62305 is applicable to risk assessment for a structure due to lightning flashes to earth. Its purpose is to provide a procedure for the evaluation of such a risk.

c) **PART 3 // IEC 62305 - 4: 2010 – PHYSICAL DAMAGE TO STRUCTURES AND LIFE HAZARD**
   This part of IEC 62305 provides the requirements for protection of a structure against physical damage by means of a lightning protection system (LPS), and for protection against injury to living beings due to touch and step voltages in the vicinity of an LPS.

d) **PART 4 // IEC 62305 - 4: 2010 – ELECTRICAL AND ELECTRONIC SYSTEMS WITHIN STRUCTURES**
   This part of IEC 62305 provides information for the design, installation, inspection, maintenance and testing of electrical and electronic system protection (SPM) to reduce the risk of permanent failures due to lightning electromagnetic impulse (LEMP) within a structure. This standard does not cover protection against electromagnetic interference due to lightning, which may cause malfunctioning of internal systems.

15. **SLS 1473 SRI LANKA STANDARD FOR LOW VOLTAGE SURGE PROTECTIVE DEVICES**

a) **PART 1: 2013// IEC 61643 - 11: 2011 – SURGE PROTECTIVE DEVICES CONNECTED TO LOW-VOLTAGE POWER SYSTEMS - REQUIREMENTS AND TEST METHODS**
   This part of IEC 61643 is applicable to devices for surge protection against indirect and direct effects of lightning or other transient overvoltages.

b) **PART 2: 2015 // IEC 61643 - 12: 2008 – SURGE PROTECTIVE DEVICES CONNECTED TO LOW-VOLTAGE POWER DISTRIBUTION SYSTEMS - SELECTION AND APPLICATION PRINCIPLES**
   This part of IEC 61643 describes the principles for selection, operation, location and coordination of SPDs to be connected to 50 Hz to 60 Hz a.c. and to d.c. power circuits and equipment rated up to 1000 V r.m.s. or 1500 V d.c.

   This International Standard is applicable to devices for surge protection of telecommunications and signalling networks against indirect and direct effects of lightning or other transient overvoltages.

   This part of IEC 61643 describes the principles for the selection, operation, location and coordination of SPDs connected to telecommunication and signalling networks with nominal system voltages up to 1000 V r.m.s. a.c. and 1500 V d.c.
e) PART 5: 2019 // IEC 61643-31: 2018 REQUIREMENTS AND TEST METHODS FOR SPDS FOR PHOTOVOLTAIC INSTALLATIONS
This part of IEC 61643 is applicable to Surge Protective Devices (SPDs), intended for surge protection against indirect and direct effects of lightning or other transient overvoltages. These devices are designed to be connected to the DC side of photovoltaic installations rated up to 1 500 V DC.

f) PART 6: 2019 // IEC 61643-32 SURGE PROTECTIVE DEVICES CONNECTED TO THE D.C. SIDE OF PHOTOVOLTAIC INSTALLATIONS – SELECTION AND APPLICATION PRINCIPLES.
This part of IEC 61643 describes the principles for selection, installation and coordination of SPDs intended for use in Photovoltaic (PV) systems up to 1 500 V DC and for the AC side of the PV system rated up to 1 000 V rms 50/60 Hz.

16. SLS 1496 SRI LANKA STANDARD FOR LIGHTNING PROTECTION SYSTEM COMPONENTS

a. PART 1: 2015 // IEC 62561 - 1: 2012 – REQUIREMENTS FOR CONNECTION COMPONENTS


e. PART 5: 2015 // IEC 62561 - 5: 2011 – REQUIREMENTS FOR EARTH ELECTRODE INSPECTION HOUSINGS AND EARTH ELECTRODE SEALS


g. PART 7: 2015 // IEC 62561 - 7: 2011 – REQUIREMENTS FOR EARTHING ENHANCING COMPOUNDS