

e3electric solarbox

Designed and manufactured by Famatel





Our equipment has been designed according to International Standard IEC 60364-7-712:2017: Requirements for special installations-Solar photovoltaic power supply systems (PV).



Photovoltaic installations are part of our daily lives.

Their development is expected to continue growing exponentially.

The safety systems required for these applications require high quality electrical designs as direct current is a vital part of the process.

Electrical Protections, what are they?

Electrical protections are designed to maintain the safety of the electrical installation and its maintenance against overloads, transient overvoltages and possible short circuits for DC voltages and currents.

This set of elements that make up the photovoltaic system directly connects the photovoltaic panels with the AC/DC inverter, hence the importance of this.



Permanent overvoltages can cause substantial damage to the operation and equipment due to minor damage over a long period of time.

Transient overvoltages gradually deteriorate the entire circuit and significantly reduce the lifetime of installations and equipment.

Components in the photovoltaic protection switchboards



Fuse and fuse holders



DC transient overvoltage protector



AC transient overvoltage protector



Disconnect



Permanent overvoltage protector



Type A differential



SWITCH



IP65 Enclosure



e-3lectricsolarbox DC

The e-3lectricsolarbox DC-P protection boxes for photovoltaic systems have the same number of strings as MPPT outputs.

The strings are protected with 1000VDC fuse holders and DC transient surge protectors.

The output version has MC4 connectors for easy connection and is perfect for MPPT inverters.



e-3lectricsolarbox DC-S

The e-3lectricsolarbox DC-S range of protection panels for photovoltaic systems brings together DC panels for inverters with one output, with multiple outputs and with multiple outputs and independent inputs.

The strings are protected with 1000VDC fuse holders and DC transient surge protectors, the output version has MC4 connectors for easy connection and is perfect for MPPT inverters.

IP65 Enclosure

DC transient overvoltage protector

Fuses and fuse holders

Dsconnector



MC4 connectors

e-3lectricsolarbox DC-SE

The e-3lectricsolarbox DC-SE panels combine transient overvoltage protection, 1000VDC fuse holder and isolating switch. They are available with and without MC4 quick connectors.



e-3lectricsolarbox DC-AC

The panels of the e-3lectricsolarbox DC-AC range combine protection for direct current and alternating current and have the same inputs and outputs.

The strings are protected with 1000VDC fuse holders and VDC transient surge protectors.

AC permanent and transient
overvoltage protector

IP65 Enclosure

Type A
differential

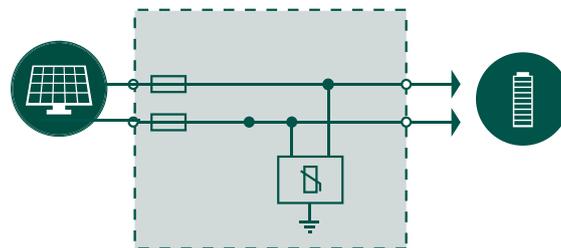


e-3lectricsolarbox AC

The e-3lectricsolarbox AC range of protection panels for photovoltaic systems only incorporate AC protection. Perfect for installation at the inverter output. In this way it is possible to have AC and DC protection independently of each other.

e-3lectricsolarbox DC

Reference	Inputs/Outputs	Fuses	MC4 connectors
E3SBDC08-FVC1SP	1 STRING/1 MPPT	16A	
E3SBDC12-FVC2SP	2 STRINGS/2 MPPT	16A	
E3SBDC26-FVC3SP	3 STRINGS/3 MPPT	16A	
E3SBDC26-FVC4SP	4 STRINGS/4 MPPT	16A	
E3SBDC42-FVC5SP	5 STRINGS/5 MPPT	16A	
E3SBDC42-FVC6SP	6 STRINGS/6 MPPT	16A	
E3SBDC08-FVS1SP	1 STRING/1 MPPT	16A	✓
E3SBDC12-FVS2SP	2 STRING/2 MPPT	16A	✓
E3SBDC26-FVS3SP	3 STRING/3 MPPT	16A	✓
E3SBDC26-FVS4SP	4 STRING/4 MPPT	16A	✓



*REF. E3SBDC08-FVC1SP DIAGRAM

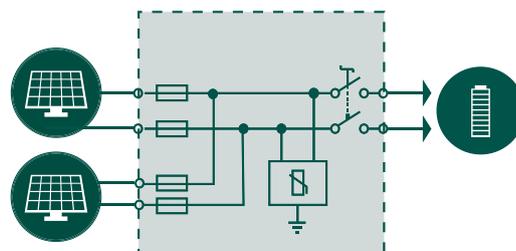
e-3lectricsolarbox DC-S

Reference	Inputs/Outputs	Fuses	MC4 connectors
E3SBDC08-FVC1SS	1 STRING/1 MPPT	16A	
E3SBDC12-FVC2SS	2 STRING/1 MPPT	16A	
E3SBDC26-FVC2SS	2 STRING/2 MPPT	16A	
E3SBDC26-FVC4SS	4 STRING/2 MPPT	16A	
E3SBDC42-FVC3SS	3 STRING/3 MPPT	16A	
E3SBDC42-FVC6SS	6 STRING/3 MPPT	16A	
E3SBDC42-FVC4SS	4 STRING/4 MPPT	16A	
E3SBDC54-FVC8SS	8 STRING/4 MPPT	16A	
E3SBDC08-FVS1SS	1 STRING/1 MPPT	16A	✓
E3SBDC12-FVS2SS	2 STRING/1 MPPT	16A	✓
E3SBDC26-FVS2SS	2 STRING/2 MPPT	16A	✓
E3SBDC26-FVS4SS	4 STRING/2 MPPT	16A	✓
E3SBDC42-FVS3SS	3 STRING/3 MPPT	16A	✓
E3SBDC42-FVS6SS	6 STRING/3 MPPT	16A	✓
E3SBDC42-FVS4SS	4 STRING/4 MPPT	16A	✓

*SWITCH 25A 1000Vdc/ 40A 600Vdc

e-3lectricsolarbox DC-SE

Reference	Inputs/Outputs	Disconnector	Fuses	MC4 connectors
E3SBDC12-FVC2SE	2 STRINGS/1 MPPT	63A	16A	
E3SBDC26-FVC3SE	3 STRINGS/1 MPPT	63A	16A	
E3SBDC26-FVC4SE	4 STRINGS/1 MPPT	63A	16A	
E3SBDC42-FVC6SE	6 STRINGS/1 MPPT	125A	16A	
E3SBDC42-FVC8SE	8 STRINGS/1 MPPT	125A	16A	
E3SBDC12-FVS2SE	2 STRINGS/1 MPPT	63A	16A	✓
E3SBDC26-FVS3SE	3 STRINGS/1 MPPT	63A	16A	✓
E3SBDC26-FVS4SE	4 STRINGS/1 MPPT	63A	16A	✓
E3SBDC42-FVS6SE	6 STRINGS/1 MPPT	125A	16A	✓
E3SBDC42-FVS8SE	8 STRINGS/1 MPPT	125A	16A	✓

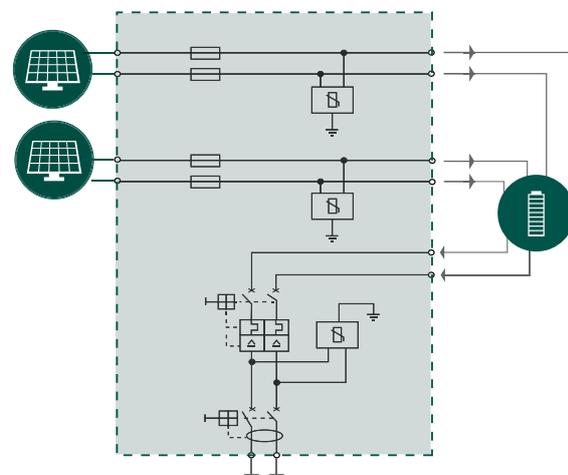


*REF. E3SBDC12-FVC2SE DIAGRAM

e-3electricssolarbox DC-AC

Reference	Inputs/Outputs	Intensity AC	MC4 connectors
E3SBDCAC26-FVC120	1 STRING/1 MPPT	1P+Nx20A	✓
E3SBDCAC26-FVC125	1 STRING/1 MPPT	1P+Nx25A	✓
E3SBDCAC26-FVC125	2 STRING/2MPPT	1P+Nx25A	✓
E3SBDCAC26-FVC132	2 STRING/2MPPT	1P+Nx32A	✓
E3SBDCAC42-FVC132	3 STRING/3MPPT	1P+Nx32A	✓
E3SBDCAC26-FVC316	1 STRING/1 MPPT	3P+Nx16A	✓
E3SBDCAC26-FVC325	1 STRING/1 MPPT	3P+Nx25A	✓
E3SBDCAC42-FVC325	2 STRING/2MPPT	3P+Nx25A	✓
E3SBDCAC42-FVC332	2 STRING/2MPPT	3P+Nx32A	✓
E3SBDCAC54-FVC332	3 STRING/3MPPT	3P+Nx32A	

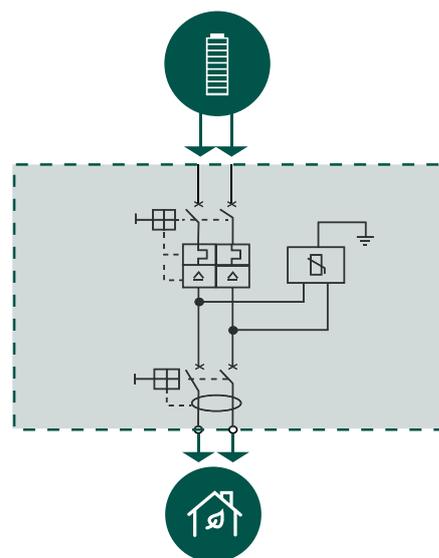
*Fuses 10A



*REF. E3SBDCAC26-FVC125 DIAGRAM

e-3electricssolarbox AC

Reference	Intensity
E3SBAC08-FVC110	1P+N x 10A
E3SBAC08-FVC116	1P+N x 16A
E3SBAC08-FVC120	1P+N x 20A
E3SBAC08-FVC125	1P+N x 25A
E3SBAC08-FVC132	1P+N x 32A
E3SBAC08-FVC140	1P+N x 40A
E3SBAC26-FVC310	3P+N x 10A
E3SBAC26-FVC316	3P+N x 16A
E3SBAC26-FVC320	3P+N x 20A
E3SBAC26-FVC325	3P+N x 25A
E3SBAC26-FVC332	3P+N x 32A
E3SBAC26-FVC340	3P+N x 40A
E3SBAC26-FVC350	3P+N x 50A
E3SBAC26-FVC363	3P+N x 63A



*REF. E3SBAC08-FVC110 DIAGRAM

Contact us for different configurations:



n° STRINGS



INTENSITY

famatel.co.uk

Unit 34 to 36 Buckingham
Road, Lynx Crescent
Weston Industrial Estate,
Weston Super Mare
BS24 9BG

-  ...company/famatel-uk/
-  @famateluk1627
-  @famatel_uk

