WATTKIT
ENERGY.SAFE

Preassembled DC box
2M-2S T1-T2

2x20A
rated current

T1
over-voltage protection

T2
over-voltage protection

Technical description:

Electric features:	
Grounding system:	DC-IT.
Nominal voltage:	1000 V
Nominal insulation voltage:	2000 V
Nominal impulse voltage withstand:	2,5 kV
Nominal frequency:	50 Hz
Short-circuit strength:	
Independent short-circuit current at supply terminals:	6 kA
Independent short-circuit current in the neutral conductor:	6 kA
Independent short-circuit current in the protective circuit:	6 kA
Protection against electric shock according to MSZ HD 60364-4-41:	
Basic protection:	-
Fault protection:	-

Installation environment:	
Type of installation:	Wall-mounted
Protection against ingress of solid objects and water:	IP55
Resistance to UV radiation:	ISO 4892-2
Corrosion resistance:	Manufacturer-specified
Environmental air temperature, lower limit:	-25 degrees Celsius
Environmental air temperature, upper limit:	+60 degrees Celsius
Environmental air temperature, maximum daily average temperature:	Open space
Maximum relative humidity:	Installation location is unknown. +18 degrees Celsius/50%
Degree of pollution in the installation environment:	Open space
EMC environment:	*Not applicable*
Special operating conditions:	Not suitable for installation in hazardous areas
Installation mode:	
Type:	Permanently installed
Fixed/moveable:	Fixed
Maximum external dimensions:	250x250x135 mm
Weight:	1,9 kg
External connector conductor (type, cross-section, material):	Minimum 6 mm², copper PV
External connector conductor connection direction and method:	Bottom, PV fixture
System:	DC-IT
Cross-section of L1-L2-L3, PE-N:	6/6/ mm² PV, 10 mm² MKH
Operational arrangements:	
Permission for manual operation of hand-operated devices **without tools or keys**:	Qualified person
Permission for the use of hand-operated devices accessible only **with tools or keys**:	Qualified person

Maintenance and expansion possibilities:	
Regulations regarding access by unskilled personnel during operation:	Qualified person, with qualifications in electrical engineering (!)
Requirement for operating or replacing components of the equipment while it is under voltage:	Qualified person, with qualifications in electrical engineering (!)
Regulations regarding access to supervisory and similar operations:	Determined by the operator
Regulations regarding access for authorized personnel to perform maintenance during operation:	Qualified person
Regulations regarding access for authorized personnel to perform expansions during operation:	Only after de-energization, following manufacturer's instructions (!)
The connection method of functional units:	Wire
Protection against direct contact with hazardous live internal parts during maintenance or expansion (e.g., functional units, main busbars, and distribution busbars):	Basic insulation
Conductivity:	
The rated current of the device:	2x20 A
Simultaneity factor:	0,9
Ratio of N-PE conductors (cross-section):	1:1

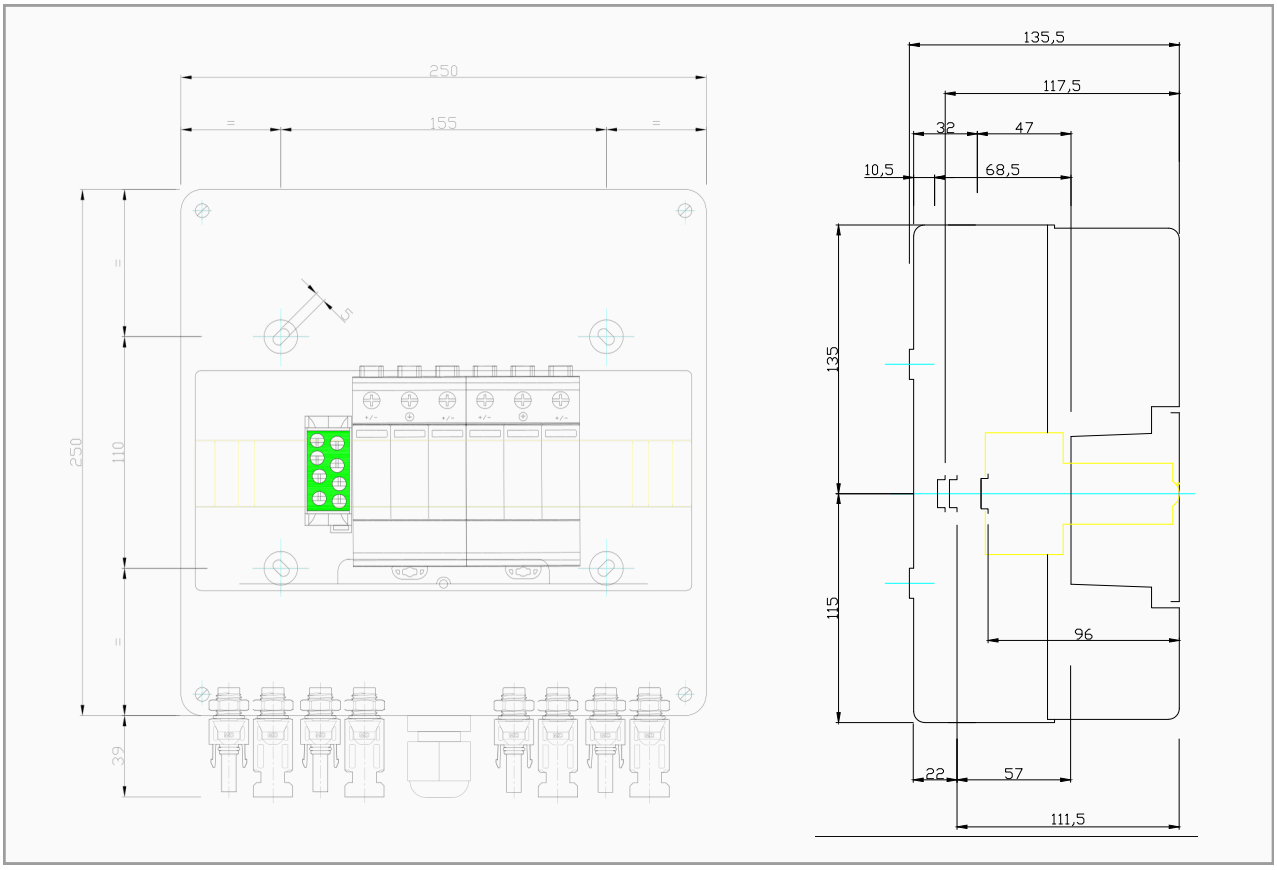
Standards:

The obligations to carry out regular checks on the protection and operation of electrical equipment must be carried out in accordance with the following standards, among others (specifications and requirements may vary):
MSZ HD 60364-6-710:2012
MSZ 1585
MSZ EN 61439-2
MSZ EN 61439-1
In addition, the regulations regarding electrical installations defined in the legislation must also be taken into account, if the facility where these installations are installed is affected. These may include, among others (regulations may vary):
Government Decree No. 40/2017 (XII. 4.) of the Ministry of National Economy (HU) on connecting and user equipment, as well as electrical equipment and protective systems operating in potentially explosive atmospheres.

The distributor shall not be liable for damages resulting from the disregard of the operating and usage instructions.

Note: It is the responsibility of the responsible leader of the facility to determine the maintenance requirements, based on information received from the manufacturer or distributor and according to the possible specific circumstances of use.

1. The distributor and the manufacturer shall not be liable for damages resulting from disregarding the operating and usage instructions or faulty installation.
2. Before commissioning, the electrical safety inspection is mandatory according to Government Decree No. 40/2017 (XII. 4.) of the Ministry of National Economy (HU).
3. Before commisioning, check the connection points.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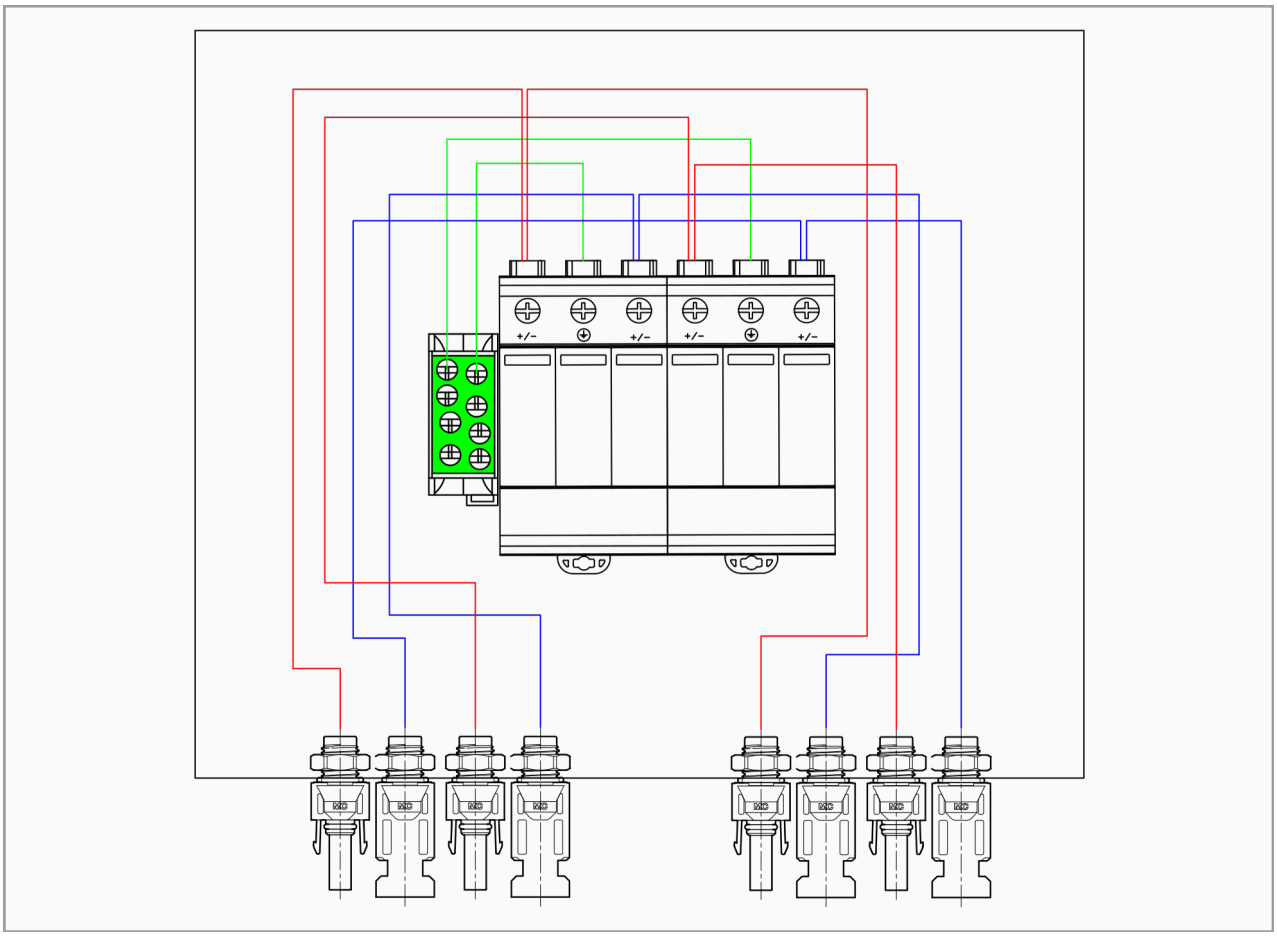
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