

ITEM NO. 10019463

DC generator terminal box Solarconnect 1500

All values in [mm] Dimensions "blue" Fastening points "orange"

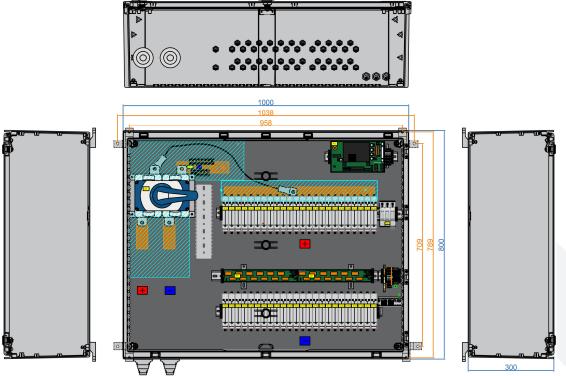
Minimum distances

above	200
below	200
lateral	100
front	1200



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Internal arrangement and components may differ depending on the variant!



10019463_datasheet_Solarconnect 1500_EN_2025_04_16

SCOPE OF DELIVERY

Quantity	Designation	Quantity	Designation
1	GAK	48	M16 cable gland incl. locknut
	Installation instructions GAK-Standard		M20 cable gland incl. lock nut
	Circuit diagram		Cable grommet M63
	Wall mounting bracket set		Blanking plug BS 13

Status: April 2025

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TECHNICAL DATA

NOMINALVALUES		• applicable / - not applicable
Rated insulation voltage U _i	[VDC]	1500
Rated operating voltage U _e	[VDC]	1500
Rated current _{inA} (ΣI _{SCSTC})	[ACD]	396
Design current ⁺ I _{SCMAX} (=Σ I _{SCSTC} x 1.25)	[ACD]	495
Number of independent MPP inputs		1
Max. Number of PV strings IN/OUT		24/1

PRO STRANG		
Rated current I _{nc} (=I _{SCSTC})	[ADC]	16,5
Design current* I _{SC MAX} (=I _{SC STC} x 1.25)	[ADC]	20,6

SURGE PROTECTION DEVICE		
surge protection PV		
Test class according to EN 61643-11 (type)		I+II/BC
Highest permissible continuous voltage U _{cpv}	[VDC]	1500
For type 1: Lightning impulse current max. I _{imp} 10/350	[nA]	5

SURGE PROTECTION DEVICE		
surge protection communication		
Test class according to EN 61643-11 (type)		II/P1
Highest permissible continuous voltage U _{cpv}	[VDC]	8,5
For type 1: Lightning impulse current max. I 10/350	[nA]	-

SWITCH-DISCONNECTOR		
Thermal current I _{th} at 60°C	[A]	500
Utilisation category according to DIN EN 60947-3		DC-21B

* the design current ISC MAX according to VDE 0100-712:2016-10 includes the factor 1.25 for ISC STC of the PV module or PV string.

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V TECHNICAL DATA

INPUT (TO THE PV GENERATOR)		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		М16
Clamping range (from - to)	[Ømm]	5 - 10
<u>Connections</u>		
Connection type		Spring clamp directly on the fuse holder
Stripping length	[mm]	14
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	2,5 - 16
Fine-stranded copper	[mm²]	2,5 - 16
Solid or stranded copper wire	[mm²]	-

OUTPUT (TO THE PV INVERTER)		
Cable entries		
Fittings (EN 62444)		Cable grommet M63
Clamping range (from - to)	[Ømm]	23 - 55
<u>Connections</u>		
Connection type		Cable lug M16 [#]
Stripping length	[mm]	
Tightening torque	[Nm]	70 ⁺
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	-
Fine-stranded copper	[mm²]	-
Cu/Al [#] solid or stranded	[mm²]	max. 400

* Bimetal cable lugs must be used for aluminium cables! When connecting aluminium conductors, the customary processing guidelines must be observed! The contact surfaces of the aluminium conductors must be cleaned, brushed and treated with suitable grease.

* Attention: The nut must be held against the back with a spanner!

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TECHNICAL DATA

EARTHING CONNECTION		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		M20
Clamping range (from - to)	[Ømm]	7 - 13
<u>Connections</u>		
Connection type		Screw terminal
Stripping length	[mm]	19
Tightening torque	[Nm]	2,5
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	1,5 - 16
Fine-stranded copper	[mm²]	-
Solid or stranded copper wire	[mm²]	2,5 - 25

COMMUNICATION AND MONITORING		
Channels/channels occupied		24/24
Single line monitoring		24
Board (operating instructions under www.weidmueller.de)		2 x Weidmüller SOLAR SMS SLAVE 12IN25A + Weidmüller SOLAR SMS MASTER
Communication protocol		Modbus RS485
Supply board		self-powered (incl. DC/DC converter)
Cable entries		
Fittings (EN 62444)		М20
Clamping range (from - to)	[Ømm]	7 - 13
<u>Connections</u>		
Connection type		Spring clamp
Stripping length	[mm]	10 - 12
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	0,25 - 2,5
Fine-stranded copper	[mm²]	0,25 - 4
Solid or stranded copper wire	[mm²]	0,25 - 4

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V TECHNICAL DATA

GENERAL		• applicable / - not applicable
Dimensions WxHxD (without screw connections)	[mm]	1000 x 800 x 300
Weight, approx.	[kg]	46,5
Operating temperature range	[°C]	-25+35
Temperature - transport/storage (24 hours 70°C)	[°C]	-25+35
Humidity - condensing permitted		-
Humidity - permissible range	[%]	595
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529) _{ta} = 40°C		65
Outdoor suitability (protected area)		•
Protection class (EN 61140)		II
Housing material		Polyester
RoHS-compliant (2011/65/EU)		۰.
Housing colour		similar to RAL 7035
Lid		Hinged door
Mounting type		Wall mounting
Closure type		Double-bit closure

OTHER	
Customs tariff number	

85372091

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