DATA SHEET

ITEM NO. 10019463

DC generator terminal box

Solarconnect 1500

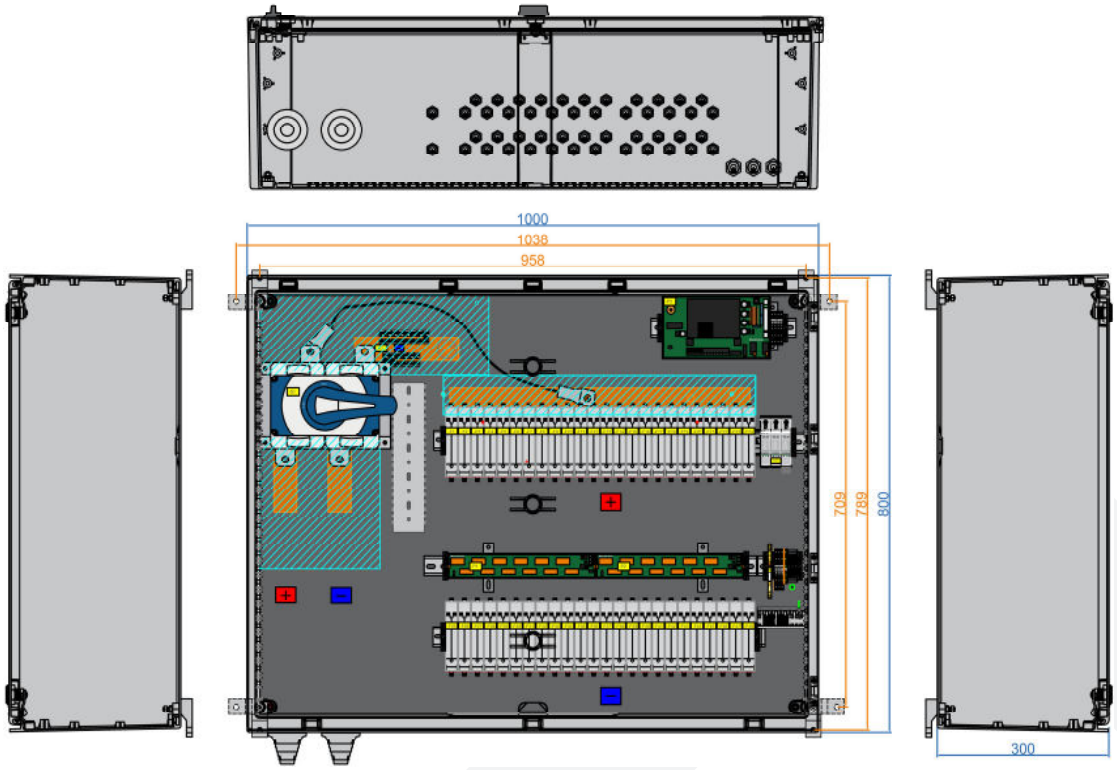
enwitec
greenLink Group
Scherrwies 2 | 84329 Wurmannsquick
info@enwitec.eu

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

Internal arrangement and components may differ depending on the variant!

Minimum distances

above	200
below	200
lateral	100
front	1200



SCOPE OF DELIVERY

Quantity	Designation
1	GAK
1	Installation instructions GAK-Standard
1	Circuit diagram
1	Wall mounting bracket set

Quantity	Designation
48	M16 cable gland incl. locknut
3	M20 cable gland incl. lock nut
2	Cable grommet M63
1	Blanking plug BS 13

10019463_GB_DAT_Solarconnect1500 (b)

©enwitec electronic GmbH

Status: (b)

The text and illustrations correspond to the technical status at the time of printing and are subject to change without notice.
Despite careful editing, all information is provided without guarantee. Liability is excluded.

DATA SHEET

ITEM NO. 10019463

DC generator terminal box

Solarconnect 1500

enwitec
greenLink Group
Scherrwies 2 | 84329 Wurmannsquick
info@enwitec.eu

TECHNICAL DATA

NOMINAL VALUES		• applicable / - not applicable
Rated insulation voltage U_i	[VDC]	1500
Rated operating voltage U_e	[VDC]	1500
Rated current$_{inA}$ ($\Sigma I_{SC\,STC}$)	[ACD]	396
Design current* I_{SCMAX} (=Σ $I_{SC\,STC}$ x 1.25)	[ACD]	495
Number of independent MPP inputs		1
Max. Number of PV strings IN/OUT		24/1
Parallel connected inputs/outputs		24/-

PRO STRANG		
Rated current I_{nc} (=$I_{SC\,STC}$)	[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
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_{imp} 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.

10019463_GB_DAT_Solarconnect1500 (b)

©enwitec electronic GmbH

Status: (b)

The text and illustrations correspond to the technical status at the time of printing and are subject to change without notice.
Despite careful editing, all information is provided without guarantee. Liability is excluded.

DATA SHEET

ITEM NO. 10019463

DC generator terminal box

Solarconnect 1500

enwitec
greenLink Group
Scherrwies 2 | 84329 Wurmannsquick
info@enwitec.eu

TECHNICAL DATA

INPUT (TO THE PV GENERATOR)		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		M16
Clamping range (from - to)	[Ømm]	5 - 10
Connections		
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
Connections		
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!

10019463_GB_DAT_Solarconnect1500 (b)

©enwitec electronic GmbH

Status: (b)

The text and illustrations correspond to the technical status at the time of printing and are subject to change without notice.
Despite careful editing, all information is provided without guarantee. Liability is excluded.

DATA SHEET

ITEM NO. 10019463

DC generator terminal box

Solarconnect 1500

enwitec
greenLink Group
Scherrwies 2 | 84329 Wurmannsquick
info@enwitec.eu

TECHNICAL DATA

EARTHING CONNECTION		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		M20
Clamping range (from - to)	[Ømm]	7 - 13
Connections		
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)		M20
Clamping range (from - to)	[Ømm]	7 - 13
Connections		
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

©enwitec electronic GmbH

Status: (b)

The text and illustrations correspond to the technical status at the time of printing and are subject to change without notice.
Despite careful editing, all information is provided without guarantee. Liability is excluded.

DATA SHEET

ITEM NO. 10019463

DC generator terminal box

Solarconnect 1500

enwitec
greenLink Group
Scherrwies 2 | 84329 Wurmannsquick
info@enwitec.eu

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	[%]	5...95
Degree of soiling		4
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529)		65
Outdoor suitability (protected area)		•
Protection class (EN 61140)		II
Housing material		Polyester
RoHS-compliant (2011/65/EU)		•
Housing colour		similar to RAL 7035
Lid		Hinged door
Mounting type		Wall mounting
Closure type		Double-bit closure

OTHER	
Customs tariff number	85372091

10019463_GB_DAT_Solarconnect1500 (b)

©enwitec electronic GmbH

Status: (b)

The text and illustrations correspond to the technical status at the time of printing and are subject to change without notice. Despite careful editing, all information is provided without guarantee. Liability is excluded.