

# DATA SHEET

ITEM NO. 10016461

DC generator terminal box

GAK-S-1000-12x2R-X-BC-PES-1.0

All values in [mm]

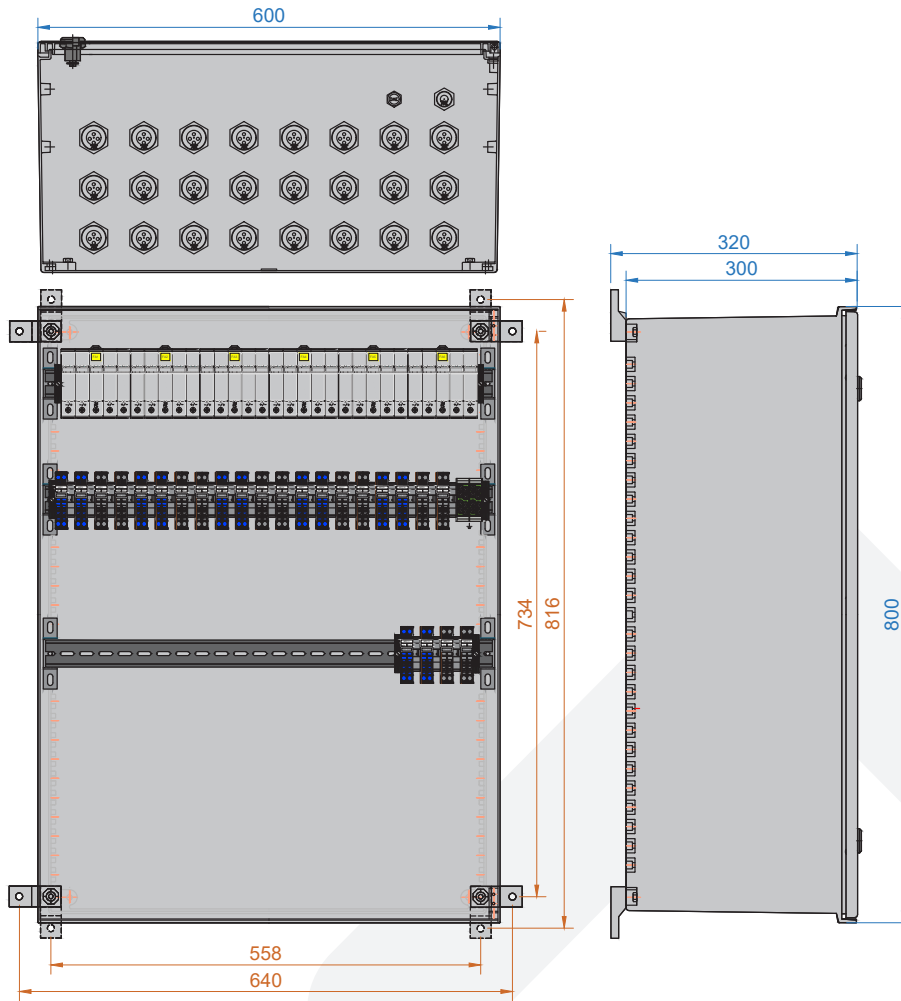
Dimensions "blue"

Fastening points "orange"

Internal arrangement and components may differ depending on the variant!

### Minimum distances

above	200
below	200
lateral	100
front	800



## SCOPE OF DELIVERY

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

Quantity	Designation
1	M20 cable gland incl. lock nut
24	M32 cable gland incl. locknut
24	Multiple seal M32
1	Pressure equalisation element M12 incl. locknut

Status: (a)

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## TECHNICAL DATA

NOMINAL VALUES		- applicable / - not applicable
Rated insulation voltage $U_i$	[VDC]	1000
Rated operating voltage $U_e$	[VDC]	1000
Rated current $I_{nA} (\sum I_{SCSTC})$	[ACD]	384
Design current* $I_{SCMAX} (= \sum I_{SCSTC} \times 1.25)$	[ACD]	480
Number of independent MPP inputs		12
Max. number of PV strings IN/OUT		24/24
Parallel connected inputs/outputs per MPP		2/2

PRO STRANG		
Rated current $I_{nc} (= I_{SCSTC})$	[ADC]	16
Design current* $I_{SCMAX} (= I_{SCSTC} \times 1.25)$	[ADC]	20

SURGE PROTECTION DEVICE		
Test class according to EN 61643-11 (type)		I+II
Highest permissible continuous voltage $U_{cpv}$	[VDC]	1000
For type 1: Lightning impulse current max. $I_{imp} 10/350$	[nA]	5

\* the design current  $I_{SCMAX}$  according to VDE 0100-712:2016-10 includes the factor 1.25 for  $I_{SCSTC}$  of the PV module or PV string.

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## TECHNICAL DATA

INPUT (TO THE PV GENERATOR)		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		M32 + MFD
Clamping range (from - to)	[Ømm]	4 × 5 - 7
Connections		
Connection type		Spring clamp
Stripping length	[mm]	13 - 15
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm <sup>2</sup> ]	0,5 - 6
Fine-stranded copper	[mm <sup>2</sup> ]	0,5 - 10
Cu-stranded	[mm <sup>2</sup> ]	0,5 - 10

OUTPUT (TO THE PV INVERTER)		
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	[mm <sup>2</sup> ]	1,5 - 16
Fine-stranded copper	[mm <sup>2</sup> ]	-
Solid or stranded copper wire	[mm <sup>2</sup> ]	2,5 - 25

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## TECHNICAL DATA

GENERAL		• applicable / - not applicable
Dimensions WxHxD (without screw connections)	[mm]	600 x 800 x 300
Weight, approx.	[kg]	20
Operating temperature range	[°C]	-25...+35
Temperature - transport/storage (24 hours 70°C)	[°C]	-25...+35
Humidity - condensing permitted		•
Humidity - permissible range	[%]	5...95
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529) <sub>ta</sub> = 40°C		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 (grey)
Mounting type		Wall mounting
Closure type		Double-bit closure

OTHER		
Customs tariff number		85371098

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