DATA SHEET

DC - generator junction box

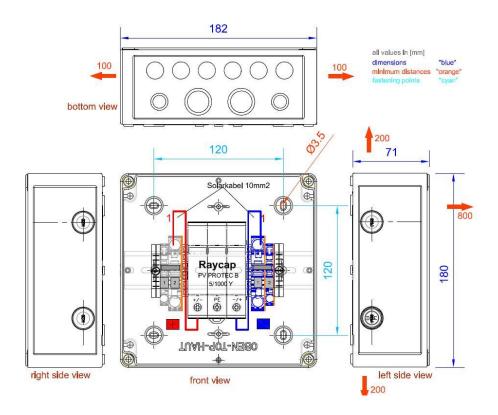


enwitec-order-number

Customer-article-number

Type designation

GAK-enwitec-S-1000-2R-X-Y-PC-1.1



Scope of delivery						
Description	Order-nr.	Pcs	Comment			
general installation instructions for GJB	10011928	1				
Cable Gland M20x1.5	10000737	1				
Locknut M20x1.5	10000722	1				
Cable Gland M16x1.5	10000736	6				
Locknut M16x1.5	10000721	6				
Pressure compensation element	10001971	1				
Locknut M12x1.5	10001476	1				

DATA SHEET

DC - generator junction box



TECHNICAL DATA

• applicable / - not applicable

Rated insulation voltage U, (VDC) 1000 Cu - finely stranded without end sleeve [mm²] 0.525					Wire cross-section (from-to)		
Rated operating voltage U _a [VDC] 1000 Cu - solid or stranded [mm²] 0.516 Rated operating current I _{ac} (= ½ losse x 1,25) [ADC] 24 Alu - round, solid [mm²] - Der string Alu - sector, stranded [mm²] - Cable entry Cable entry Screw terminal/spring clamp Screw terminal/spring clamp Screw terminal/spring clamp Screw terminal/spring length [mm] 19 19 19 19 19 19 19 19 19 19	Rated insulation voltage U _i	[VDC]	1000		· · ·	[mm²]	From 2.5
Rated operating voltage U _a [VDC] 1000 Cu - solid or stranded [mm²] 0.516 Rated operating current I _{ac} (= ½ losse x 1,25) [ADC] 24 Alu - round, solid [mm²] - Der string Alu - sector, stranded [mm²] - Cable entry Cable entry Screw terminal/spring clamp Screw terminal/spring clamp Screw terminal/spring clamp Screw terminal/spring length [mm] 19 19 19 19 19 19 19 19 19 19	Number of isolated MPP-input(s)	[n]			Cu - finely stranded without end sleeve	[mm²]	0.525
Aliu - round, solid mm² Dimensioning value* Excuss 25 Excrs x 1,25 EAC 30 Aliu - round, stranded mm² -	Rated operating voltage U _e						0.516
Dimensioning value*	Rated operating current I_{nA} (= $\sum I_{SC STC}$)		24				
Max. number of PV-strings [n] 2	· · · · · · · · · · · · · · · · · · ·	[ADC]			·		
Per string Rated operating current Inc. (= loc set C) [ADC] 12 Connection to ground Cable entry Ca	Max. number of PV-strings	[n]		2	·		-
Dimensioning value*	<u>Per string</u>				· ·		-
Dimensioning value*	Rated operating current I _{nc} (=I _{SC STC})	[ADC]	12		Connection to ground		
Fuse in the "-" potential Fuse in the "-" poten	Dimensioning value* I _{SC MAX} (=I _{SC STC} x 1,25)	[ADC]	15				
Fuse in the "-" potential	Fuse in the "+" potential	•/-		-	,	•/-	●1xM20
Fuse inserted at factory setting (A)	Fuse in the "-" potential	•/-	-				
Surge protective device (SPD) test category acc.EN 61643-11 (type) 2 Tightening torque Insulation stripping length Insulation	Fuse inserted at factory setting	•/-	-		. 5 5	رااااالورا	0 13
Surge protective device (SPD) test category acc.EN 6163-11 (type) 2 Tightening torque [Nm] 2.5 Max. continuous operating voltage Ucpy [VDC] 1000 only type 1: impulse current max. I _{imp} 10/350 [kA] Input (for PV-generator) Cable entry Cable glands (EN 50262)	Rated current value at factory setting	[A]		-			Screw
test ategory acc.EN 61643-11 (type) 2 Tightening torque [Nm] 2.5 max. continuous operating voltage Ucpv (VDC) 1000 Appropriate conductor material Al/Cu Cu only type 1: impulse current max. I _{mp} 10/350 [kA] - Wire cross section Input (for PV-generator) Cable entry Cable glands (EN 50262)	Surge protective device (SPD)					[mm]	
max. continuous operating voltage U _{cpv} [VDC] 1000 Appropriate conductor material Al/Cu Vive cross section Cu-finely stranded with end sleeve [mm²] Alw. 25 Cu-finely stranded with end sleeve [mm²] Alu - round, stranded with out end sleeve [mm²] Alu - round, stranded without end sleeve [mm²] Alu - round, stranded [mm²] Alu - sector, solid [mm²] Alu - sector, stranded [mm²] Alu - sector, solid [mm²] Alu - sector, stranded [mm²] Alu - sector, solid [mm²] Alu - s	· · ·	1 (tyne)		2			
Only type 1: impulse current max. I _{imp} 10/350 [kA] Input (for PV-generator) Cable entry Cable glands (EN 50262)	• ,				-		
Cu-finely stranded with end sleeve mm² Max. 25	· · · · ·					Al/Cu	Cu
Cable entry Cable glands (EN 50262)	·	DU [KA]		-		[mm²]	Max 25
Cable glands (EN 50262)	<u> </u>				· · · · · · · · · · · · · · · · · · ·		
Calmping range [Ømm] 4.5-10 Clamping range [Ømm] 4.5-10 PV-connectors •/- PV-connectors - manufacturer/type-designation Terminals "+" potential / "-" potential Screw terminal/spring clamp Spring Spring [mm²] 13-15 Person 1.5 From 1.5 Fro	Cable entry				,		
Clamping range [g/mm] 4.5-10 PV-connectors •/- PV-connectors - manufacturer/type-designation Terminals "+" potential / "-" potential +PLUS -MINUS Screw terminal/spring clamp Spring	Cable glands (EN 50262)	•	• 4>	kM16		•	
PV-connectors - manufacturer/type-designation Terminals "+" potential / "-"	Clamping range	• •	4.5	5-10	,		_
Alu - sector, stranded mm² - Terminals Termina	PV-connectors			-		_	
Principal Prin	PV-connectors - manufacturer/type-designati	on		-	· ·		
Screw terminal/spring clamp Spring Spring Spring Insulation stripping length Insulatio	Terminals					[111111]	
Insulation stripping length [mm] 13-15 13-15	"+" potential / "-" potential			-MINUS		f 1	
Tightening torque [Nm] Operating temperature range [°C] -25°C - + 35 Wire cross-section (from-to) Cu - finely stranded with end sleeve [mm²] No.5-10 O.5-10 Cu - finely stranded without end sleeve [mm²] No.5-10 O.5-10 Cu - solid or stranded [mm²] No.5-10 O.5-10 Cu- solid or stranded [mm²] No.5-10 O.5-10 Cuty (for PV-inverter) Cable entry Cable glands (EN 50262)	Screw terminal/spring clamp		Spring	Spring	, ,		
Wire cross-section (from-to) Cu - finely stranded with end sleeve [mm²] From 1.5 From 1.5 Cu - finely stranded without end sleeve [mm²] 0.5-10 0.5-10 Cu- solid or stranded [mm²] 1-10 1-10 Cu- solid or stranded [mm²] 1-10 1-10 Cuty t (for PV-inverter) Cable entry Cable glands (EN 50262) Clamping range [Ømm] 4.5-10 PV-connectors PV-connectors PV-connectors - manufacturer/type-designation Terminals Screw terminal/spring clamp Spring Snsulation stripping length [mm] 18-20 Tightening torque [Nm] Appropriate conductor material Derating above temperature [°C] -25°C - + 35 Transport and storage temperature [°C] -25°C - + 35 Transport and storage temperature [°C] -25°C - + 35 Transport and storage temperature [°C] -25°C - + 35 Transport and storage temperature [°C] -25°C - + 35 Transport and storage temperature [°C] -25°C - + 35 Humidity - condensing permitted •/- Max. altitude above sea level NN [m] 2000 Outdoor-application permitted •/- Protection against electric shock (EN 61140) II Cabinet material PC Polycarbonate RoHS-conformity (2011/65/EU) •/- • Colour of cabinet Base part grey similar to RAL7035; Cover transparen Way of mounting Way of mounting Quantity of expanded clay [I]	Insulation stripping length	[mm]	13-15	13-15	-		
Cu - finely stranded with end sleeve [mm²] From 1.5 From 1.5 From 1.5 Cu - finely stranded without end sleeve [mm²] 0.5-10 0.5-10 Humidity - condensing permitted •/- • Cu- solid or stranded [mm²] 1-10 1-10 Humidity within the range of [%] 595 Output (for PV-inverter) Cable entry Cable glands (EN 50262) •/- • 2xM16 Outdoor-application permitted •/ Clamping range [Ømm] 4.5-10 Protection against electric shock (EN 61140) II PV-connectors • o/ PV-connectors - manufacturer/type-designation - Terminals Screw terminal/spring clamp Screw terminal/spring length [mm] 18-20 Tightening torque [Nm] - Appropriate conductor material Al/Cu Cu Way of mounting Quantity of expanded clay [I]	Tightening torque	[Nm]	-	-			
Cu - finely stranded without end sleeve [mm²] 0.5-10 0.5-10 Humidity - condensing permitted •/- Cu- solid or stranded [mm²] 1-10 1-10 Humidity within the range of [%] 595 Output (for PV-inverter) Cable entry Cable glands (EN 50262) •/- Clamping range [Ømm] 4.5-10 Protection against electric shock (EN 61140) II PV-connectors - manufacturer/type-designation - RoHS-conformity (2011/65/EU) •/- Terminals Screw terminal/spring clamp Snsulation stripping length [mm] 18-20 Tightening torque [Nm] - Way of mounting Appropriate conductor material Al/Cu Cu Humidity - condensing permitted •/- •/- Humidity - condensing permitted •/- •/- Colour of cabinet PC Polycarbonate PC Polyca	Wire cross-section (from-to)						
Cu- solid or stranded [mm²] 1-10 1-10 Humidity within the range of [%] 595 Output (for PV-inverter) Cable entry Cable entry Cable glands (EN 50262) •/- • 2xM16 Outdoor-application permitted •/ Clamping range [Ømm] 4.5-10 Protection against electric shock (EN 61140) II PV-connectors •/ Cabinet material PC Polycarbonate PV-connectors - manufacturer/type-designation - RoHS-conformity (2011/65/EU) •/- • Terminals Screw terminal/spring clamp Spring Snsulation stripping length [mm] 18-20 Tightening torque [Nm] - Way of mounting Appropriate conductor material Al/Cu Cu Quantity of expanded clay [I]	Cu - finely stranded with end sleeve	[mm ²]	From 1.5	From 1.5			-25°C - + 35
Output (for PV-inverter) Cable entry Max. altitude above sea level NN [m] 2000 Cable glands (EN 50262) •/- • 2xM16 Outdoor-application permitted •/- - Clamping range [Ømm] 4.5-10 Protection against electric shock (EN 61140) II PV-connectors •/- - Cabinet material PC Polycarbonate PV-connectors - manufacturer/type-designation - RoHS-conformity (2011/65/EU) •/- • Terminals Colour of cabinet Base part grey similar to RAL7035; Cover transparen Screw terminal/spring clamp Spring Snsulation stripping length [mm] 18-20 Tightening torque [Nm] - Appropriate conductor material Al/Cu Cu Max. altitude above sea level NN [EN 6529) 65 Outdoor-application permitted •/- Protection against electric shock (EN 61140) II Cabinet material PC Polycarbonate ROHS-conformity (2011/65/EU) •/- •/- •/- Colour of cabinet Way of mounting Wall mounting Quantity of expanded clay [I]	Cu - finely stranded without end sleeve		0.5-10	0.5-10	Humidity - condensing permitted		
Cable entry Cable glands (EN 50262)	Cu- solid or stranded	[mm ²]	1-10	1-10	Humidity within the range of	[%]	595
Cable glands (EN 50262) -/- Clamping range [Ømm] 4.5-10 Protection against electric shock (EN 61140) II PV-connectors -/- PC Polycarbonate RoHS-conformity (2011/65/EU) Terminals Screw terminal/spring clamp Snsulation stripping length Tightening torque Appropriate conductor material Al/Cu Outdoor-application permitted -/- Protection against electric shock (EN 61140) II Cabinet material RoHS-conformity (2011/65/EU) -/- Colour of cabinet Base part grey similar to RAL7035; Cover transparen Way of mounting Quantity of expanded clay [I]	Output (for PV-inverter)				Max. altitude above sea level NN	[m]	2000
Clamping range [Ømm] 4.5-10 Protection against electric shock (EN 61140) II PV-connectors •/ Cabinet material PC Polycarbonate PV-connectors - manufacturer/type-designation - RoHS-conformity (2011/65/EU) •/- • Terminals Screw terminal/spring clamp Spring Snsulation stripping length [mm] 18-20 Tightening torque [Nm] - Way of mounting Appropriate conductor material Al/Cu Cu Quantity of expanded clay [I]	Cable entry				Protection class IP (EI	N 60529)	65
PV-connectors •/ Cabinet material PC Polycarbonate PV-connectors - manufacturer/type-designation - RoHS-conformity (2011/65/EU) •/- • Terminals Screw terminal/spring clamp Spring Snsulation stripping length [mm] 18-20 Tightening torque [Nm] - Way of mounting Appropriate conductor material Al/Cu Cu Quantity of expanded clay [I]	Cable glands (EN 50262)	•/-	• 2xM16		Outdoor-application permitted	•/-	-
PV-connectors - manufacturer/type-designation Terminals Screw terminal/spring clamp Snsulation stripping length Tightening torque Appropriate conductor material Al/Cu ROHS-conformity (2011/65/EU) Colour of cabinet Base part grey similar to RAL7035; Cover transparen Way of mounting Quantity of expanded clay [I]	Clamping range	[Ømm]	4.5-10		Protection against electric shock (EN 61140)		II
Terminals Screw terminal/spring clamp Spring Snsulation stripping length Tightening torque Appropriate conductor material Colour of cabinet Base part grey similar to RAL7035; Cover transparen Way of mounting Quantity of expanded clay [I]	PV-connectors	•/-	-		Cabinet material		PC Polycarbonate
Screw terminal/spring clamp Spring Snsulation stripping length Tightening torque Appropriate conductor material Spring Spring 18-20 Cover transparen Way of mounting Way of mounting Quantity of expanded clay [I]	PV-connectors - manufacturer/type-designation	on	-		RoHS-conformity (2011/65/EU)	•/-	•
Spring Spring Spring Spring Spring RAL7035; Snsulation stripping length [mm] 18-20 Cover transparen Tightening torque [Nm] - Way of mounting Wall mounting Appropriate conductor material Al/Cu Cu Quantity of expanded clay [I]	Terminals				Colour of cabinet		
Snsulation stripping length [mm] 18-20 Cover transparen Tightening torque [Nm] - Way of mounting wall mounting Appropriate conductor material Al/Cu Cu Quantity of expanded clay [I]	Screw terminal/spring clamp		Spring				
Tightening torque [Nm] - Way of mounting wall mounting Appropriate conductor material AI/Cu Cu Quantity of expanded clay [I]	Snsulation stripping length	[mm]	18-20				
Appropriate conductor material Al/Cu Cu Quantity of expanded clay [I]	Tightening torque	[Nm]	-		Way of mounting		
Lioniv ground mountings	Appropriate conductor material	Al/Cu	(Cu	, ,	[1]	-
(only ground mounting) Locking system Screw lock							Corour look

the dimensioning value $I_{\text{SC MAX}}$, acc. to VDE 0100-712:2016-10, implies the factor 1,25 for $I_{\text{SC STC}}$ of the PV module, or of the PV string.

DATA SHEET

DC - generator junction box



Relevant standards	
Switching devices	EN 61439-1 EN 61439-2
PV power supply systems	DIN IEC 60364-7- 712
Miscellaneous	
Customs tariff number	85371098
Spare parts	Order-nr.