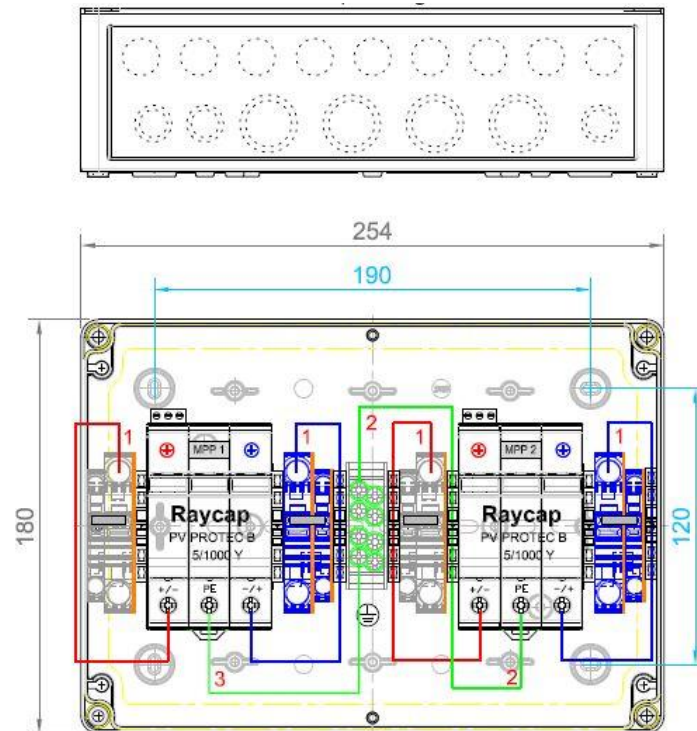


DATA SHEET

DC - generator junction box

| | |
|-------------------------|------------------------------------|
| enwitec-order-number | 10012755 |
| Customer-article-number | |
| Type designation | GAK-enwitec-S-1000-2x2R-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 | 12 | |
| Locknut M16x1.5 | 10000721 | 12 | |
| 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_i | [VDC] | 1000 |
| Number of isolated MPP-input(s) | [n] | 2 |
| Rated operating voltage U_e | [VDC] | 1000 |
| Rated operating current I_{NA} ($= \sum I_{SC\ STC}$) | [ADC] | 24 |
| Dimensioning value* $I_{SC\ MAX}$ ($= \sum I_{SC\ STC} \times 1,25$) | [ADC] | 30 |
| Max. number of PV-strings | [n] | 2 |
| <u>Per string</u> | | |
| Rated operating current I_{nc} ($= I_{SC\ STC}$) | [ADC] | 12 |
| Dimensioning value* $I_{SC\ MAX}$ ($= I_{SC\ STC} \times 1,25$) | [ADC] | 15 |
| Fuse in the "+" potential | •/- | - |
| Fuse in the "-" potential | •/- | - |
| Fuse inserted at factory setting | •/- | - |
| Rated current value at factory setting | [A] | - |

Surge protective device (SPD)

| | | |
|---|------------------------|------|
| test category | acc.EN 61643-11 (type) | 2 |
| max. continuous operating voltage U_{cpv} | [VDC] | 1000 |
| only type 1: impulse current max. I_{imp} | 10/350 [kA] | |

Input (for PV-generator)

Cable entry

| | | |
|---|-------|----------|
| Cable glands (EN 50262) | •/- | • 8x M16 |
| Clamping range | [Ømm] | 4.5-10 |
| PV-connectors | •/- | - |
| PV-connectors - manufacturer/type-designation | | - |

Terminals

| | | |
|-------------------------------|--------|--------|
| "+" potential / "-" potential | +PLUS | -MINUS |
| Screw terminal/spring clamp | Spring | Spring |
| Insulation stripping length | [mm] | 13-15 |
| Tightening torque | [Nm] | - |

Wire cross-section (from-to)

| | | | |
|---|--------------------|----------|----------|
| Cu - finely stranded with end sleeve | [mm ²] | From 1.5 | From 1.5 |
| Cu - finely stranded without end sleeve | [mm ²] | 0.5-10 | 0.5-10 |
| Cu - solid or stranded | [mm ²] | 1-10 | 1-10 |

Output (for PV-inverter)

Cable entry

| | | |
|---|-------|----------|
| Cable glands (EN 50262) | •/- | • 4x M16 |
| Clamping range | [Ømm] | 4.5-10 |
| PV-connectors | •/- | - |
| PV-connectors - manufacturer/type-designation | | - |

Terminals

| | | |
|--------------------------------|-------|--------|
| Screw terminal/spring clamp | | Spring |
| Insulation stripping length | [mm] | 18-20 |
| Tightening torque | [Nm] | - |
| Appropriate conductor material | Al/Cu | Cu |

Wire cross-section (from-to)

| | | |
|---|--------------------|----------|
| Cu - finely stranded with end sleeve | [mm ²] | From 2.5 |
| Cu - finely stranded without end sleeve | [mm ²] | 0.5...25 |
| Cu - solid or stranded | [mm ²] | 0.5...16 |
| Alu - round, solid | [mm ²] | - |
| Alu - round, stranded | [mm ²] | - |
| Alu - sector, solid | [mm ²] | - |
| Alu - sector, stranded | [mm ²] | - |

Connection to ground

| | | |
|--------------------------------|-------|---------|
| Cable entry | | |
| Cable glands (EN 50262) | •/- | • 1xM20 |
| Clamping range | [Ømm] | 6-13 |
| Terminals | | |
| Screw terminal/spring clamp | | Screw |
| Insulation stripping length | [mm] | 19 |
| Tightening torque | [Nm] | 2.5 |
| Appropriate conductor material | Al/Cu | Cu |

Wire cross section

| | | |
|---------------------------------------|--------------------|---------|
| Cu-finely stranded with end sleeve | [mm ²] | Max. 25 |
| Cu-finely stranded without end sleeve | [mm ²] | - |
| Cu-solid or stranded | [mm ²] | Max. 25 |
| Alu - round, solid | [mm ²] | - |
| Alu - round, stranded | [mm ²] | - |
| Alu - sector, solid | [mm ²] | - |
| Alu - sector, stranded | [mm ²] | - |

GENERAL DATA

| | | |
|--|------|--|
| Dimension (WxHxD) | [mm] | 250x180x111 |
| Weight | [kg] | Approx. 2 |
| Operating temperature range | [°C] | -25°C - + 35 |
| Derating above temperature | [°C] | - |
| Transport and storage temperature | [°C] | -25°C - + 35 |
| Humidity - condensing permitted | •/- | • |
| Humidity within the range of | [%] | 5...95 |
| Max. altitude above sea level NN | [m] | 2000 |
| Protection class IP (EN 60529) | | 65 |
| 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 transparent |
| Way of mounting | | wall mounting |
| Quantity of expanded clay (only ground mounting) | [l] | - |
| Locking system | | Screw lock |

*
the dimensioning value $I_{SC\ MAX}$, acc. to VDE 0100-712:2016-10, implies the factor 1,25 for $I_{SC\ STC}$ 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. |
| | |
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| | |
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