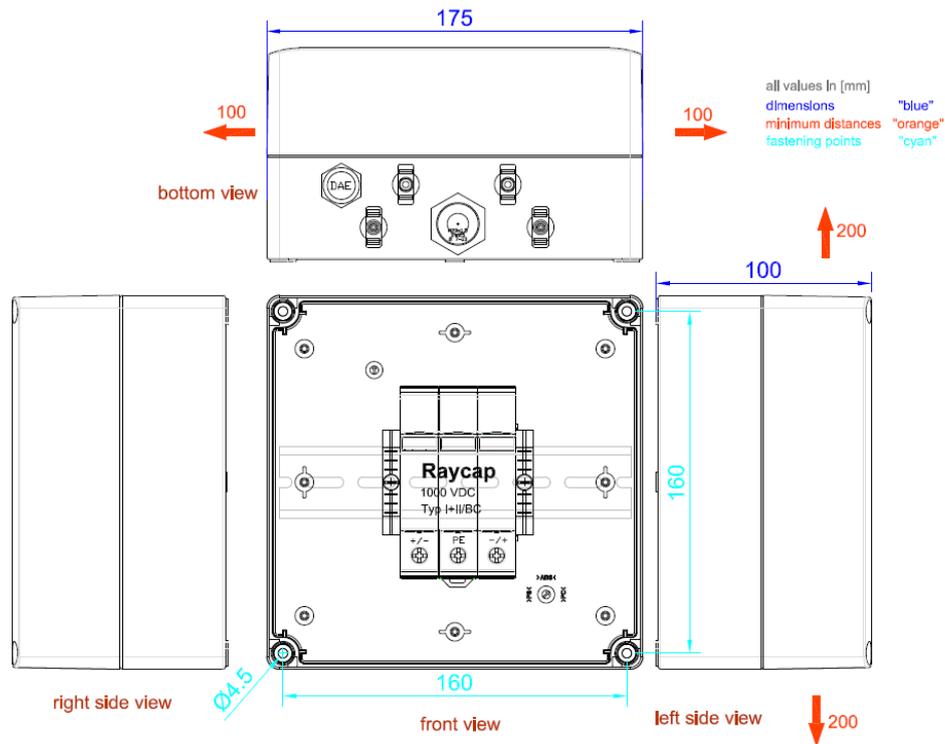


DATA SHEET

DC - generator junction box

| | |
|-------------------------|---------------------------------------|
| enwitec-order-number | 10014800 |
| Customer-article-number | |
| Type designation | GAK-enwitec-S-1000-1R-X-BC-PC-1.0_MC4 |



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 | |
| 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] | 1 |
| Rated operating voltage U_e | [VDC] | 1000 |
| Rated operating current I_{NA} ($= \sum I_{SC\ STC}$) | [ADC] | 32 |
| Dimensioning value* $I_{SC\ MAX}$ ($= \sum I_{SC\ STC} \times 1,25$) | [ADC] | 40 |
| Max. number of PV-strings | [n] | 1 |

Per string

| | | |
|---|-------|----|
| Rated operating current I_{nc} ($= I_{SC\ STC}$) | [ADC] | 32 |
| Dimensioning value* $I_{SC\ MAX}$ ($= I_{SC\ STC} \times 1,25$) | [ADC] | 40 |
| 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) | 1+2 |
| max. continuous operating voltage U_{cpv} | [VDC] | 1000 |
| only type 1: impulse current max. I_{imp} 10/350 | [kA] | 5 per Pol |

Input (for PV-generator)

Cable entry

| | | |
|---|-------|--------------------------------------|
| Cable glands (EN 50262) | •/- | |
| Clamping range | [Ømm] | |
| PV-connectors | •/- | • |
| PV-connectors - manufacturer/type-designation | | MC PV-ADBP4-S2/6 MC PV-ADSP4-S2/6 |

Terminals

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

Wire cross-section (from-to)

| | | | |
|---|--------------------|---|---|
| Cu - finely stranded with end sleeve | [mm ²] | - | - |
| Cu - finely stranded without end sleeve | [mm ²] | - | - |
| Cu - solid or stranded | [mm ²] | - | - |

Output (for PV-inverter)

Cable entry

| | | |
|---|-------|--------------------------------------|
| Cable glands (EN 50262) | •/- | - |
| Clamping range | [Ømm] | - |
| PV-connectors | •/- | • |
| PV-connectors - manufacturer/type-designation | | MC PV-ADBP4-S2/6 MC PV-ADSP4-S2/6 |

Terminals

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

Wire cross-section (from-to)

| | | |
|---|--------------------|---|
| Cu - finely stranded with end sleeve | [mm ²] | - |
| Cu - finely stranded without end sleeve | [mm ²] | - |
| Cu - solid or stranded | [mm ²] | - |
| 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] | 15 |
| Tightening torque | [Nm] | 3 |
| 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] | 175x175x100 |
| Weight | [kg] | Approx. 1.5 |
| 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 | | Lower part similar to RAL7035, upper part 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. |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |