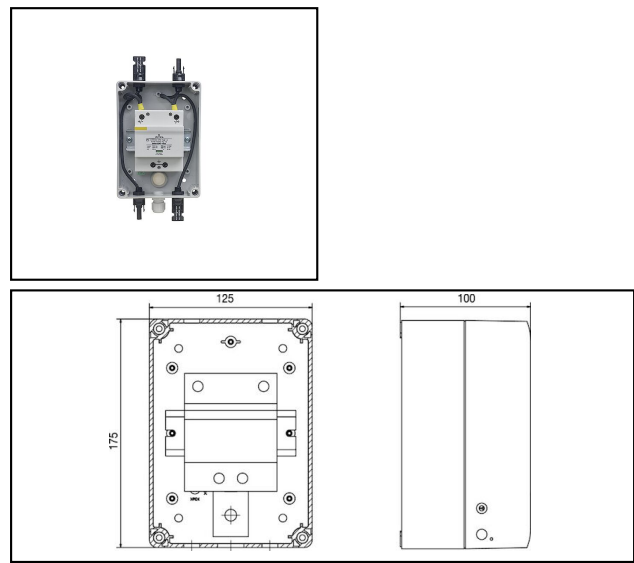


Generators combiner boxes

**GAK 100-MC4** Junction box PV GAK 50VG-1000-1ST-1MPP



**Characteristics**  
Generator boxes with preassembled surge protection:

- Legend**  
a) type 1+2 GAK 60 VGPVS-1000-1ST-1MPP  
b) type 1+2 GAK 50 PVS-1000-1ST-1MPP  
c) type 1+2 GAK 50 VGPVS-1000-1ST-1MPP  
d) type 2 GAK 50 PV-1000-1ST-1MPP

| Article-Nr. | E-Number    |  Typ/Type |  V<br>U <sub>C</sub> |  kA<br>I <sub>imp</sub> |  kA<br>I <sub>max</sub> |  ns<br>t <sub>A</sub> |  kV<br>U <sub>P</sub> |  mm <sup>2</sup> |  |  |
|-------------|-------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 296.050.401 | 969 111 774 | T1 / T2                                                                                    | ≤1200VDC                                                                                              | 6.25                                                                                                     | 40                                                                                                       | ≤25                                                                                                    | 2.8                                                                                                      | 2.5 - 25                                                                                            | c)                                                                                  | 1                                                                                   |

## Technical Specifications: Junction box PV GAK 50VG-1000-1ST-1MPP GAK 100-MC4

|                                                             |                                      |
|-------------------------------------------------------------|--------------------------------------|
| Article No.                                                 | 296.050.401                          |
| SPD type                                                    | T1 / T2                              |
| Number of poles                                             | 2                                    |
| max. discharge current (I <sub>max</sub> )                  | 40 kA                                |
| Nominal line voltage U <sub>n</sub> DC                      | 1000 V                               |
| Impulse current [I <sub>imp</sub> ] (10/350)                | 6.25 kA                              |
| Discharge current max. (8/20) $\mu$ s [I <sub>max</sub> ]   | 60 kA                                |
| Voltage protection level [U <sub>p</sub> ]                  | 2.8 kV                               |
| Operation voltage max. [U <sub>c</sub> ]                    | ≤1200VDC                             |
| Operating current [I <sub>c</sub> ]                         | 0 kA                                 |
| Follow current [I <sub>F</sub> ]                            | 0 kA                                 |
| follow current extinguishing capability [I <sub>fi</sub> ]  | Unendlich                            |
| Response time [t <sub>a</sub> ]                             | ≤25                                  |
| Short circuit resistance (I <sub>cw</sub> )                 | 10 kA                                |
| Fault indication                                            | Mechanisch, Rot                      |
| Temperature range                                           | -40 - 85                             |
| Signaling on the device                                     | Optic                                |
| Signaling contact                                           | Yes                                  |
| Connection cross section solid / stranded max.              | 1.5 mm <sup>2</sup>                  |
| Switching capacity signaling contact                        | 250 V / 0,5 A (AC) - 30 V / 2 A (DC) |
| Energetically coordinated protective effect to the terminal | Yes                                  |
| System configuration DC                                     | Yes                                  |
| Construction size                                           | 3 modular spacing                    |
| Nominal discharge current [I <sub>n</sub> ]                 | 15/Pol                               |
| Nominal cross section conductor                             | 2.5 - 25                             |
| Integrated backup fuse                                      | No                                   |
| Exhausting                                                  | No                                   |
| Mounting method                                             | DIN rail (top hat rail) 35 mm        |
| Degree of protection (IP)                                   | IP20                                 |
| Casing                                                      |                                      |
| degree of protection                                        | IP65                                 |
| number of modules                                           | 5                                    |
| contract rail                                               | DIN-Schiene                          |
| String / MPP                                                | 1ST-1MPP                             |
| inputs PG / MC4                                             | MC 4                                 |
| outputs PG / MC4                                            | MC 4                                 |
| Standards                                                   |                                      |
| Test standards USA                                          | UL 1449 ed.3                         |
| Test standards Europe                                       | EN 50539-11                          |
| Test standards France                                       | UTE C61-740-51                       |
| Homologation                                                | VDE, ÖVE und UL                      |
| comment                                                     |                                      |
| comment                                                     | c)                                   |
| Commercial specification                                    |                                      |
| Customs number                                              | 85372000                             |
| country of origin                                           | CH                                   |
| Texte                                                       |                                      |
| comment                                                     | c)                                   |
| Logistic specification                                      |                                      |
| VPE Weight                                                  | 1.064 kg                             |