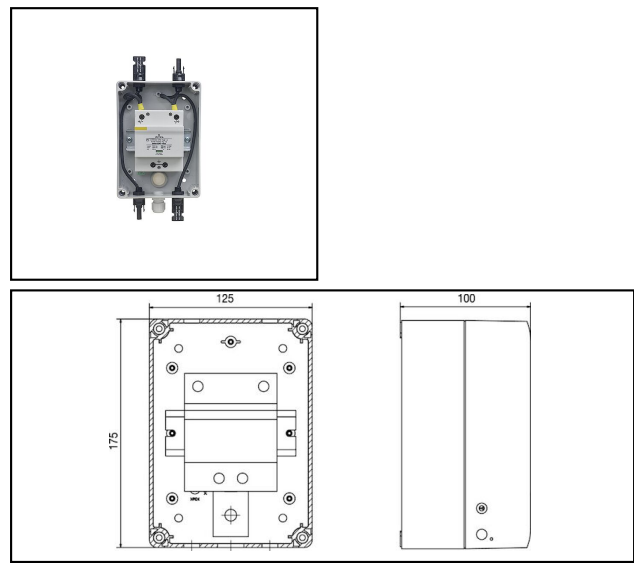


Generators combiner boxes

GAK 100-MC4 Junction box PV



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		V U_C	kA I_{imp}	kA I_{max}	ns t_A	kV U_P	mm² 		
296.050.201	969 112 004	T1 / T2	≤1200VDC	12.5	40	≤25	2.8	6 - 35	a)	1
296.050.801	969 112 114	T1 / T2	≤1200VDC	6.25	40	≤25	2.6	2.5 - 25	b)	1
296.050.401	969 111 774	T1 / T2	≤1200VDC	6.25	40	≤25	2.8	2.5 - 25	c)	1
296.050.601	969 111 884	T2	≤1200VDC	5	40	≤25	2.6	2.5 - 25	d)	1

Technical Specifications: Junction box PV GAK 100-MC4

	296.050.201	296.050.801	296.050.401	296.050.601
SPD type	T1 / T2			T2
Number of poles	2			
max. discharge current (I _{max})	40 kA			
Nominal line voltage U _n DC	1000 V			
Impulse current [I _{imp}] (10/350)	12.5 kA	6.25 kA		5 kA
Discharge current max. (8/20) μs [I _{max}]	40 kA		60 kA	
Nominal discharge surge current (8/20)	20 kA	15 kA		15 kA
Voltage protection level [U _p]	2.8 kV	2.6 kV	2.8 kV	2.6 kV
Protection level max. (at 5kA)	2.1 kV			
Protection level max. (at 12.5kA)	2.3 kV			
Operation voltage max. [U _c]	≤1200VDC			
Operating current [I _c]	0 kA		0 kA	
Follow current [I _F]	0 kA			
follow current extinguishing capability [I _{fi}]	Unendlich kA eff		Unendlich kA eff	
Response time [t _a]	≤25 ns			
Short circuit resistance (I _{cw})	25 kA	1 kA	10 kA	1 kA
Fault indication	Mechanisch, Rot	mechanisch, Rot	Mechanisch, Rot	mechanisch, Rot
Temperature range	-40 - 85			
Total discharge current (8/20) (L N-PE)		60 kA		60 kA
Degree of protection	IP20			
Signaling on the device	Optic			
Signaling contact	Yes			
Connection cross section solid / stranded max.	1.5 mm²			
Switching capacity signaling contact	250 V / 0,5 A (AC) - 30 V / 2 A (DC)	250 V/0,5 A (AC) / - 30 V / 2 A (DC)	250 V / 0,5 A (AC) - 30 V / 2 A (DC)	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	4 modular spacing	3 modular spacing		
Nominal discharge current [I _n]	20/Pol	15/Pol		
Nominal cross section conductor	6 - 35 mm²	2.5 - 25 mm²	2.5 - 25	2.5 - 25 mm²
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	FprEN 50539-11	EN 50539-11		
Test standards France	UTE C61-740-51			
Homologation	VDE, ÖVE und UL		VDE, ÖVE und UL	
Commercial specification				
Customs number	85366900	85372000		
country of origin	CH			
Logistic specification				
VPE Weight	1.241 kg	1.162 kg	1.064 kg	1.137 kg

