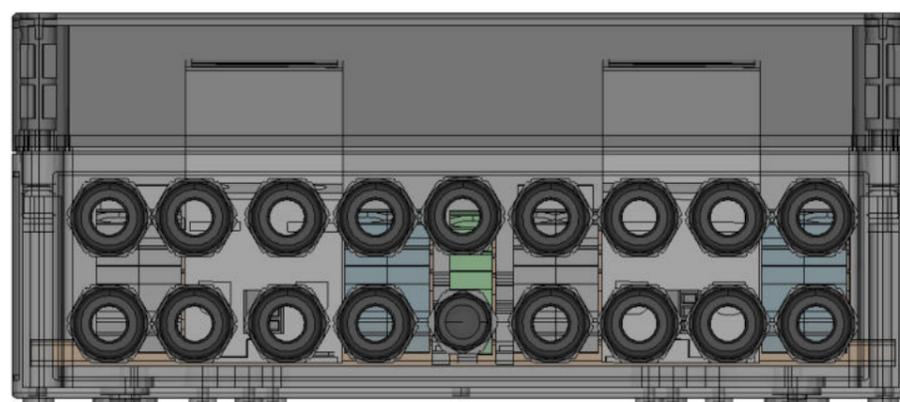
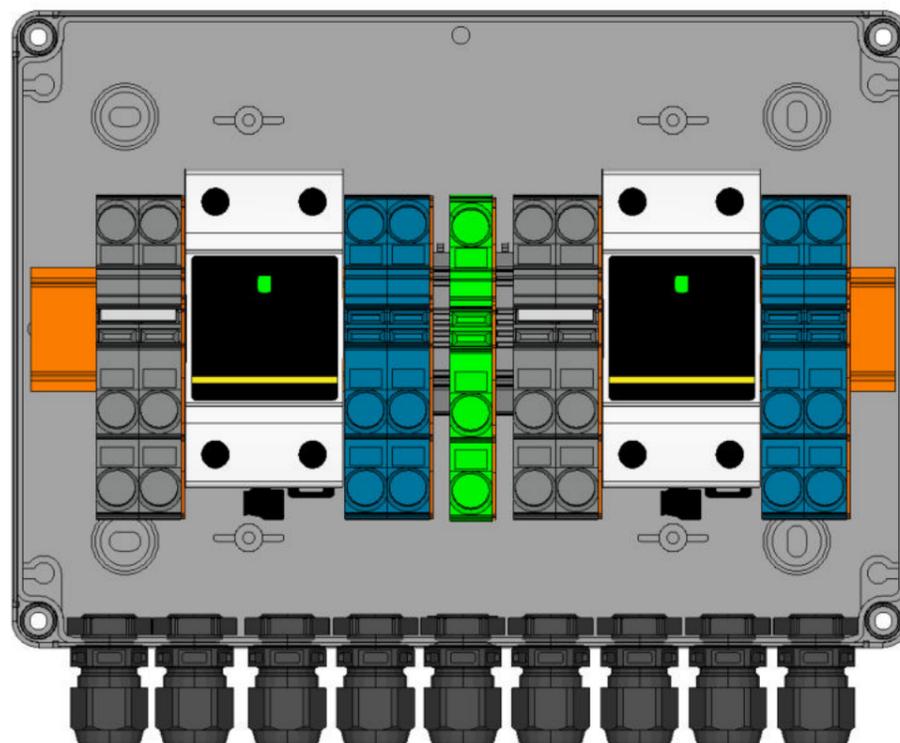
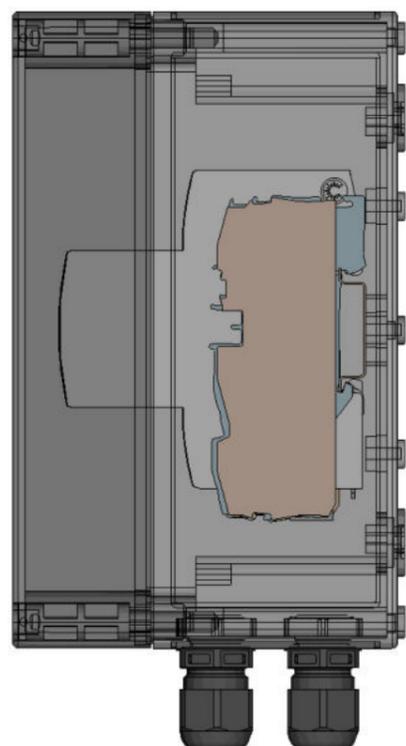


Article number HDC-02-02-TT-022-E002



Technical data

HISbox DC Combiner 1000V, 2MPPT 2 Strings

SPD Type 1+2 DPVN1-6CS-21Y-1200

Input per MPPT:

2 x clamping points at spring-type terminals without ferrule max. 25mm² (+)
2 x clamping points at spring-type terminals without ferrule max. 25mm² (-)

Output per MPPT:

2 x clamping point at spring-type terminal without ferrule max. 25mm² (+)
2 x clamping point at spring-type terminal without ferrule max. 25mm² (-)

PE:

1 x clamping point at spring-type terminal without ferrule max. 25mm² (PE)

Enclosure:

Reinforced polycarbonate: H180xW254xD111, transparent
Brackets included, Venting valve included

Rated voltage (Un)	1000 V DC
Rated insulation voltage (Ui)	1000 V DC
Rated current (InA)	30 A
N° of Strings 2	N° of MPPT 2
String rated current (InC)	15 A
SPD YES	Switch-disconnector NO
Protection class II	IP Class 65

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Modification	Date	Name	Creator	DINO.TOPOLOVIC
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Project name	HDC-02-02-TT-022-E002
HISbox DC Combiner 1000 V	
Article number	HDC-02-02-TT-022-E002
Standard	IEC 61439-1;-2
Approved by	

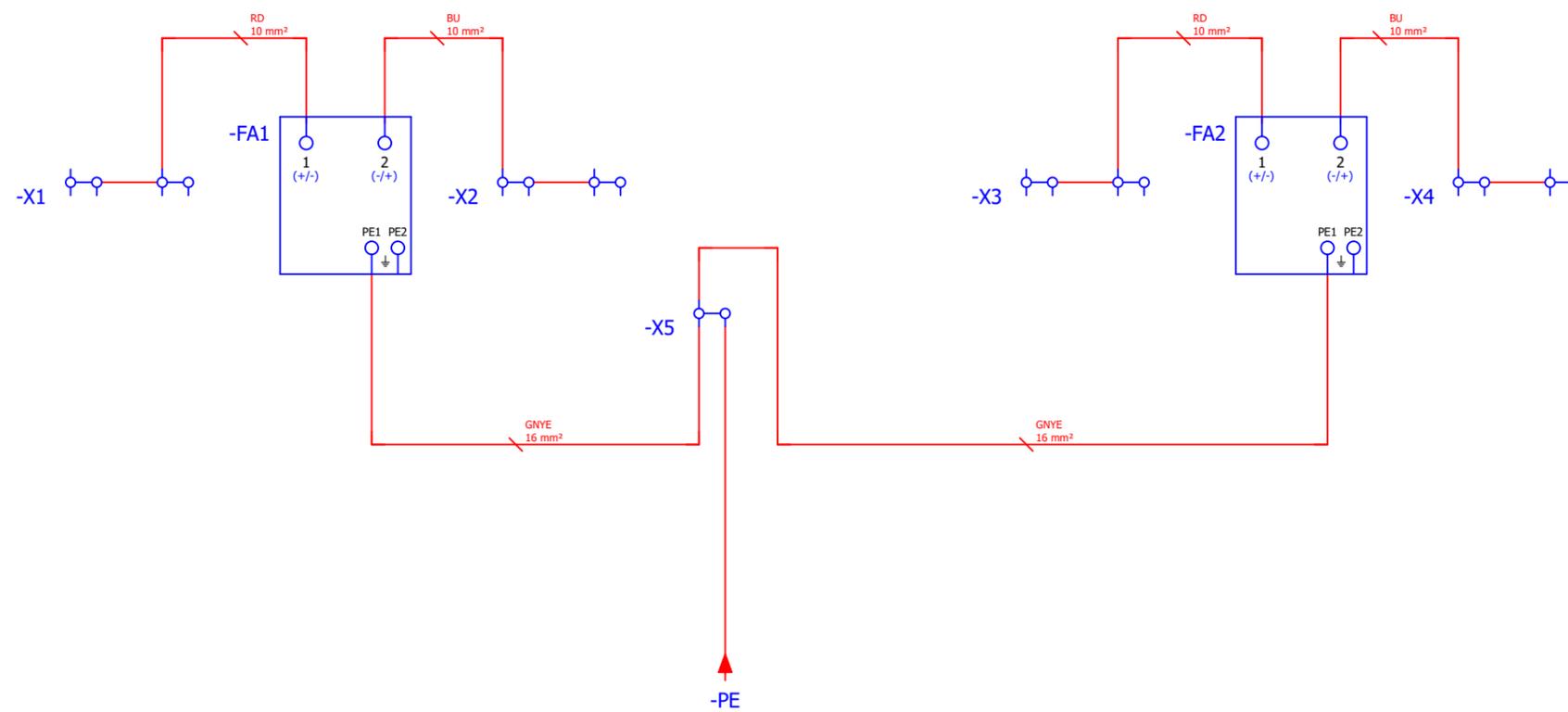
Approved by	
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Cover sheet	
Date	07/06/2024
Ed.	DINO.TOPOLOVIC

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	Administrative documents
+	Page 1
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			Project name	HDC-02-02-TT-022-E002	Article number	HDC-02-02-TT-022-E002		Single line diagram		=	&EAA	
			HISbox DC Combiner 1000 V		Standard IEC 61439-1;-2						Administrative documents	
Modification	Date	Name	Creator	DINO.TOPOLOVIC	Approved by		Date	06/06/2024	Ed.	DINO.TOPOLOVIC	+	Page 2 from 2
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Parts list

Device tag	Quantity	Designation	Technical data
=+-FA1;=+-FA2	2	Surge protection device Typ 1+2, DPVN-Serie	Kombi Ableiter Typ 1+2
+U1	1	Polycarbonate enclosure	254 x 180 x 111 mm
+U4...+U20	17	Cable gland M16	Ø 4,5 - 10 mm, Color: Black
+U22	1	Pressure compensation element M12	M12 x 1,5
+X1.;+X3:	4	3-conductor through terminal block	1000 V, 76 A, 16 mm ²
+X2.;+X4:	4	3-conductor through terminal block, 16.0 mm ² , 76.0 A, blue	1000 V, 76 A, 16 mm ²
+X5:1	1	3-conductor ground terminal block, 16.0 mm ² , green-yellow	16 mm ²

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			Project name	HDC-02-TT-022-E002	Article number	HDC-02-TT-022-E002		Summarized parts list		=	&EAA	
			HISbox DC Combiner 1000 V		Standard	IEC 61439-1;-2						Administrative documents
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SPD

Type 1+2 DPVN

Impulse currents I_{imp}/I_{total} : 6.25/12.5 kA

Remote signaling: No

Connection Torque: 2.5 Nm

Cross section: 2.5 - 25 mm²

Connection method: screw clamp

Cable glands:

Cable glands mounted - clamping range:

16 x M16 (OD 4,5-10mm) - Input/Output

01 x M16 (OD 4,5-10mm) - PE

Beschreibung Description	Klemmbereich [mm] Clamping area [mm]	Drehmoment [Nm] Torque [Nm]		Blindstopfen (optional) Blind stopper (optional)
		M1	M2	
M16	4,5-10	3,5	1,5	BS9
M20	6-13	4,0	4,0	BS13
M25	9-17	10	4,0	BS17
M32	13-21	15	6,0	BS21
M40	16-28	20	20	BS28
M50	21-35	30	30	BS35
M63	34-48	30	30	BS48
M75 (Messing)	48-62	40	40	-



Instructions:

- Pass the cables according to overview through the cable glands
- Tighten cable glands to the required torque
- Unused cable glands or improper cable mounting can lead to the reduction of IP class and cosequently leakage of enclosure



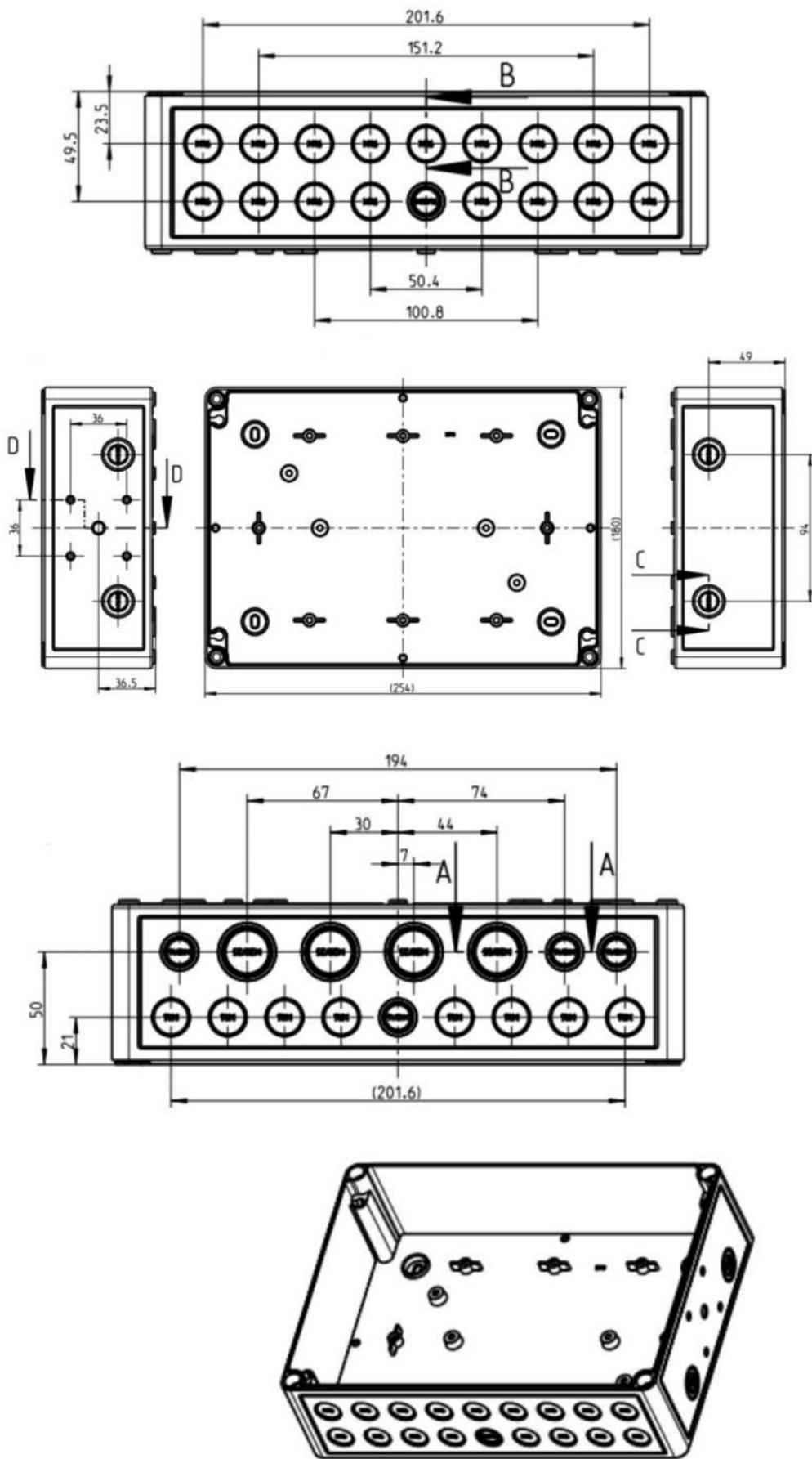
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Project name	HDC-02-02-TT-022-E002	Article number	HDC-02-02-TT-022-E002
	HISbox DC Combiner 1000 V	Standard	IEC 61439-1;-2
Modification	Date	Name	Creator
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			Approved by



Components description	=	&EAA
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Optional zusätzlich zu bestellen (HIS.Art-Nr: 719983)

Leergehäuse

Material: Glasfaserverstärktes Polycarbonat mit metrischen Vorrägungen; Farbe: Grau.
UV- und Ozonbeständig. Optional mit Wandbefestigungsglaschen 4 Stück aus Kunststoff (HIS.Art-Nr: 719983).

Aufstellung: Innenraum und geschützter Außenraum, verschattet (vor direkter Sonneneinstrahlung und Regeneinfall geschützt).
Schlagfestigkeit (gemäß IEC 62262): IK08

Betriebs- und Umgebungsbedingungen:

Umgebungstemperaturen:
Indoor: - 5 °C bis max. +40°C (+35°C 24h Mittelwert)
Outdoor: - 25 °C bis max. +40°C (+35 °C 24h Mittelwert)

Relative Luftfeuchtigkeit:
Indoor: Max. 50% bei +40°C, max. 90% bei +20°C (nicht kondensierend)
Outdoor: kurzzeitig 95% bei +25°C (nicht kondensierend)
Höhe über Meeresspiegel: Max. 2000m

Berücksichtigen Sie bitte die erforderlichen Abstände für eine optimale Luftzirkulation. HIS empfiehlt grundsätzlich einen Mindestabstand von mind. 30cm zu allen Teilen, die eine Wärmeabfuhr behindern können oder selbst Wärme erzeugen.

Enclosure

Material: Glass-fibre reinforced polycarbonate with knockouts; Colour grey.
UV- and ozone resistant; Optionally with 1set (4 pieces of plastic, HIS item No 719983) wall brackets.

Installation: Indoor and Outdoor, shaded (protected from rain and direct sunlight)
Impact resistance (acc. IEC 62262): IK08

Operating and ambient conditions:

Ambient temperatures:
Indoor: - 5° C to max. + 40°C (+ 35°C 24h average)
Outdoor: - 25° C to max. + 40° C (+ 35° C 24h average)

Relative humidity
Indoor: Max. 50% at +40°C, max. 90% at +20°C (not condensating)
Outdoor: Temporary 95% at +25°C (not condensating)
Altitude above sea level. Max. 2000m

Please be aware of the required distances for optimum air circulation. HIS recommends a minimum distance of 30cm to all parts that may hinder the heat dissipation or generate heat themselves.



			Project name	HDC-02-02-TT-022-E002	Article number	HDC-02-02-TT-022-E002		Enclosure description	=	&EAA					
				HISbox DC Combiner 1000 V	Standard	IEC 61439-1;-2					Administrative documents				
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