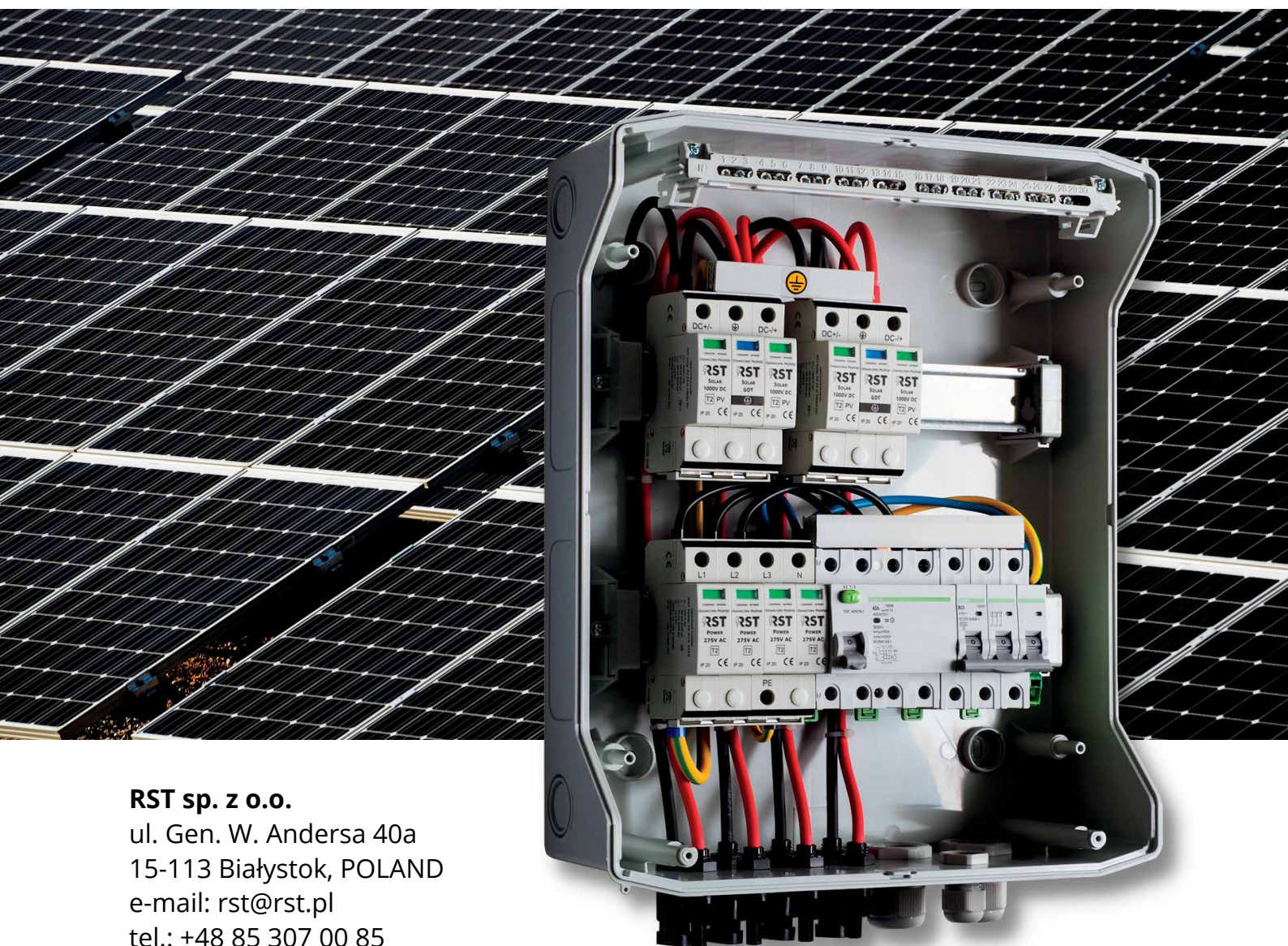


RST PV **COMBINER** **BOXES**

CATALOGUE



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SPIS TREŚCI

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DC combiner boxes

Ready to assembly combiner boxes with integrated surge protection for DC circuits of photovoltaic installations. They enable the connection of DC cables using original MC4 connectors or directly to the terminals of protective elements (version with PG cable glands). Combiner boxes can be equipped as follows:

- surge arresters Type 1+2 or Type 2
- overcurrent protection gPV
- DC switch disconnector
- fire safety button
- multiple string and MPP
- PG cable glands, MC4 connectors or spring clamps



AC combiner boxes

Ready to assembly combiner boxes with integrated overvoltage protection for three-phase or single-phase low voltage circuits. Housings are available with cable glands or membranes. They can be equipped with overcurrent protection, residual current device and switch disconnectors. The parameters and type of protection are selected depending on the power of the photovoltaic installation and may include:

- surge arresters Type 1+2 or Type 2
- AC overcurrent protection up to 100 A
- residual current device RCD type A
- AC switch disconnector
- connection of the cables to apparatus terminals, busbars, screw or spring connectors
- phase indicator
- cable glands PG or membranes



DC+AC combiner boxes

Combined surge protection for both DC and AC circuits in single housing. The configuration of the combiner box includes equipment dependent of power and configuration of photovoltaic installation. In each combiner box, the distribution of DC and AC cables and elements are safely separated.

In addition to the solutions presented in this catalog, it is possible to order combiner boxes in any configuration according to customer specifications!

DC side protection

DC combiner boxes

✓ Ready to assembly

✓ UV resistant

✓ Degree of protection IP65

✓ Transparent lid

✓ Protection class: II

✓ Modular design



DC-1 **T1**

RST PV DC combiner boxes

Basic configuration

- Surge arrester RST Solar
- MC4 Staübli connectors
- Solar cables 6 mm²
- Noark housing PHS 1000V
- Warning labels

Type	Surge arrester DC		U _{CPV}	Connectors	Strings	MPPT	Housing
DC-1	Type 1+2	I _{imp} = 12,5 kA _{10/350}	1 000 V=	MC4	1	1	4 MOD
DC-2	Type 2	I _{max} = 40 kA _{8/20}	1 000 V=	MC4	1	1	4 MOD
DC-3	Type 1+2	I _{imp} = 12,5 kA _{10/350}	1 000 V=	MC4	2	2	8 MOD
DC-4	Type 2	I _{max} = 40 kA _{8/20}	1 000 V=	MC4	2	2	8 MOD
DC-5	Type 1+2	I _{imp} = 12,5 kA _{10/350}	1 000 V=	MC4	3	3	12 MOD
DC-6	Type 2	I _{max} = 40 kA _{8/20}	1 000 V=	MC4	3	3	12 MOD



DC-3 **T1**



DC-4 **T2**

Optional equipment:

Housing manufacturer:	-H	Hensel
	-V	Hager
Connection type:	-z	additional MC4 connectors for cables
	-d	PG7 cable glands, connection to the screw terminals of the devices
	-w	WAGO spring clamps
Additional equipment:	-t(xxA)	gPV fuse with a rated current of xx A in the switch base
	-r	switch disconnecter DC
	-rw	switch disconnecter DC with shunt trip
	-p	fire safety button (only -rw version)

Examples of marking for combiner boxes with additional equipment:

DC-1-Vdw	Hager housing, 1 string, 1MPPT, SPD Type 1, PG7 cable glands, WAGO spring clamps
DC-4-t(15A)	2 strings, 2 MPPT, SPD Type 2, MC4, fuses gPV 15A
DC-2-Hr	Hensel housing, 1 string, 1 MPPT, SPD Type 2, MC4, switch disconnecter DC
DC-1x2	2 strings, 1 MPPT, SPD Type 1, MC4 (when number of strings is greater than MPP - additional WAGO clamps included)

AC side protection

Single phase AC combiner boxes with residual current device RCD and circuit breaker

✓ Ready to assembly

✓ UV resistant

✓ Degree of protection IP65

✓ Transparent lid

✓ Protection class: II

✓ Modular design



AC-1xx **T1**

RST PV combiner boxes type AC-1xx and AC-2xx

Basic configuration

- Surge arrester RST Power
- RCD 2P; type A; 25 A; 300 mA
- Circuit breaker 1P
- Noark housing PHS 1000V 8 MOD
- N and PE busbars
- Internal connections 4 mm²

Type	Surge arrester AC		Circuit breaker	RCD	Housing	Obudowa
AC-110	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	1P B10 A	2P type A; 25 A; 300 mA	4 mm ²	8 MOD
AC-116	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	1P B16 A	2P type A; 25 A; 300 mA	4 mm ²	8 MOD
AC-120	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	1P B20 A	2P type A; 25 A; 300 mA	4 mm ²	8 MOD
AC-210	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	1P B10 A	2P type A; 25 A; 300 mA	4 mm ²	8 MOD
AC-216	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	1P B16 A	2P type A; 25 A; 300 mA	4 mm ²	8 MOD
AC-220	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	1P B20 A	2P type A; 25 A; 300 mA	4 mm ²	8 MOD



AC-2xx **T2**

Optional equipment:

Housing manufacturer:	-H	Hensel
	-V	Hager
Connection type:	-n	additional WAGO clamps for N and PE wires
Additional equipment:	-0	no RCD, additional WAGO clamp for wires
	-0bw	no RCD and without WAGO clamps
	-(RCD)	other type RCD device e.g. (RCD 100 mA)
	-(Cxx)	circuit breaker type C e.g.: (C16)

Examples of marking for combiner boxes with additional equipment:

AC-116-V	Hager housing, SPD Type 1, RCD type A 25 A 300 mA, B16
AC-220-(RCD 100mA)	SPD Type 2, RCD type A 25 A 100 mA, B20

AC side protection

Three phase AC combiner boxes with residual current device RCD and circuit breaker

✓ Ready to assembly

✓ UV resistant

✓ Degree of protection IP65

✓ Transparent lid

✓ Protection class: II

✓ Modular design



AC-3xx **T1**

RST PV combiner boxes type AC-3xx and AC-4xx

Basic configuration

- Surge arrester RST Power
- RCD 4P; type A; 40 A (63 A); 300 mA
- Circuit breaker 3P
- Noark housing PHS 1000V 12 MOD
- N and PE busbars
- Internal connections $\geq 6 \text{ mm}^2$

Type	Surge arrester AC		Circuit breaker	Residual current device RCD	Internal connections	Housing
AC-310	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B10 A	4P type A; 40 A; 300 mA	6 mm^2	12 MOD
AC-316	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B16 A	4P type A; 40 A; 300 mA	6 mm^2	12 MOD
AC-320	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B20 A	4P type A; 40 A; 300 mA	6 mm^2	12 MOD
AC-332	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B32 A	4P type A; 40 A; 300 mA	6 mm^2	12 MOD
AC-340	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B40 A	4P type A; 40 A; 300 mA	10 mm^2	12 MOD
AC-350	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B50 A	4P type A; 63 A; 300 mA	10 mm^2	12 MOD
AC-363	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B63 A	4P type A; 63 A; 300 mA	16 mm^2	12 MOD
AC-410	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B10 A	4P type A; 40 A; 300 mA	6 mm^2	12 MOD
AC-416	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B16 A	4P type A; 40 A; 300 mA	6 mm^2	12 MOD
AC-420	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B20 A	4P type A; 40 A; 300 mA	6 mm^2	12 MOD
AC-432	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B32 A	4P type A; 40 A; 300 mA	6 mm^2	12 MOD
AC-440	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B40 A	4P type A; 40 A; 300 mA	10 mm^2	12 MOD
AC-450	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B50 A	4P type A; 63 A; 300 mA	10 mm^2	12 MOD
AC-463	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B63 A	4P type A; 63 A; 300 mA	16 mm^2	12 MOD



AC-4xx **T2**

Optional equipment:

Housing manufacturer:

- H Hensel
- V Hager

Connection type:

- n additional WAGO clamps for N and PE wires
- w WAGO spring clamps

Additional equipment:

- r switch disconnector FR
- rw switch disconnector FR with shunt trip
- p fire safety button (only -rw version)
- (RCD) other type RCD device e.g. (RCD 100 mA)

Note: three-phase combiner boxes with additional equipment, depending on the configuration, can be made in double-row enclosures 24 MOD

AC side prtction

Three phase AC combiner boxes with switch disconnecter and phase indicator

✓ Ready to assembly

✓ UV resistant

✓ Degree of protection IP65

✓ Transparent lid

✓ Protection class: II

✓ Modular design



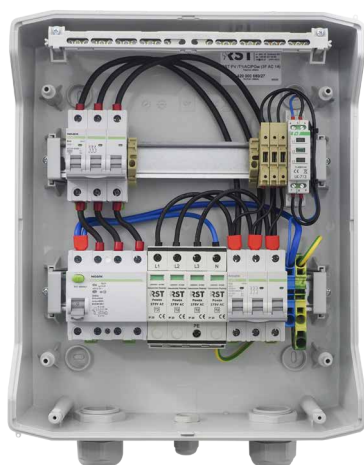
AC-5xx T1

RST PV combiner boxes type AC-5xx and AC-6xx

Basic configuration

- Surge arrester RST Power
- RCD 4P; type A; 40 A (63 A); 300 mA
- Circuit breaker 3P
- Switch disconnecter FR
- Noark housing PHS 1000V 24 MOD
- N and PE busbars
- Internal connections $\geq 6 \text{ mm}^2$
- Phase indicator

Type	Surge arrester AC		Circuit breaker	Residual current device RCD	Switch disconnecter	Housing
AC-532	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B32 A	4P type A; 40 A; 300 mA	FR 40 A	24 MOD
AC-540	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B40 A	4P type A; 40 A; 300 mA	FR 40 A	24 MOD
AC-550	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B50 A	4P type A; 63 A; 300 mA	FR 63 A	24 MOD
AC-563	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B63 A	4P type A; 63 A; 300 mA	FR 63 A	24 MOD
AC-632	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B32 A	4P type A; 40 A; 300 mA	FR 40 A	24 MOD
AC-640	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B40 A	4P type A; 40 A; 300 mA	FR 40 A	24 MOD
AC-650	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B50 A	4P type A; 63 A; 300 mA	FR 63 A	24 MOD
AC-663	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B63 A	4P type A; 63 A; 300 mA	FR 63 A	24 MOD



AC-6xx T2

Optional equipment:

- | | | |
|-----------------------|--------|---|
| Housing manufacturer: | -H | Hensel |
| Connection type: | -n | additional WAGO clamps for N and PE wires |
| Additional equipment: | -rw | switch disconnecter FR with shunt trip |
| | -p | fire safety button (only -rw version) |
| | -(RCD) | other type RCD device e.g. (RCD 100 mA) |

Note: three-phase combiner boxes with additional equipment, depending on the configuration, can be made in triple-row enclosures 36 MOD

AC side protection

Three phase AC combiner boxes with circuit breaker

✓ Ready to assembly

✓ UV resistant

✓ Degree of protection IP65

✓ Transparent lid

✓ Protection class: II

✓ Modular design



AC-7xx **T1**

RST PV combiner boxes type AC-7xx and AC-8xx

Basic configuration

- Surge arrester RST Power
- WAGO clamps for phase wires
- Circuit breaker 3P
- Noark housing PHS 1000V 12 MOD
- N and PE busbars
- Internal connections $\geq 6 \text{ mm}^2$

Type	Surge arrester AC		Circuit breaker	Spring clamps	Cable glands	Housing
AC-710	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B10 A	WAGO 6 mm ²	PG21	8 MOD
AC-716	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B16 A	WAGO 6 mm ²	PG21	8 MOD
AC-720	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B20 A	WAGO 6 mm ²	PG21	8 MOD
AC-732	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B32 A	WAGO 6 mm ²	PG21	8 MOD
AC-740	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B40 A	WAGO 10 mm ²	PG29	12 MOD
AC-750	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B50 A	WAGO 10 mm ²	PG29	12 MOD
AC-763	Type 1+2	$I_{\text{imp}} = 12,5 \text{ kA}_{10/350}$	3P B63 A	WAGO 16 mm ²	PG36	12 MOD
AC-810	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B10 A	WAGO 6 mm ²	PG21	8 MOD
AC-816	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B16 A	WAGO 6 mm ²	PG21	8 MOD
AC-820	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B20 A	WAGO 6 mm ²	PG21	8 MOD
AC-832	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B32 A	WAGO 6 mm ²	PG21	8 MOD
AC-840	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B40 A	WAGO 10 mm ²	PG29	12 MOD
AC-850	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B50 A	WAGO 10 mm ²	PG29	12 MOD
AC-863	Type 2	$I_{\text{max}} = 40 \text{ kA}_{8/20}$	3P B63 A	WAGO 16 mm ²	PG36	12 MOD



AC-8xx **T2**

Optional equipment:

Housing manufacturer:	-H	Hensel
	-V	Hager
Connection type:	-n	additional WAGO clamps for N and PE wires
	-bw	without WAGO spring clamps (connecting wires to the inputs and outputs of the overcurrent circuit breaker)
	-r	switch disconnecter FR
Additional equipment:	-rw	switch disconnecter FR with shunt trip
	-p	fire safety button (only -rw version)

Note: three-phase combiner boxes with additional equipment, depending on the configuration, can be made in double-row enclosures 24 MOD

AC side protection

Three phase AC combiner boxes for 50 kW PV generators

✓ Ready to assembly

✓ UV resistant

✓ Degree of protection IP65

✓ Resistant housing IK10

✓ Protection class: II

✓ Mounting plate



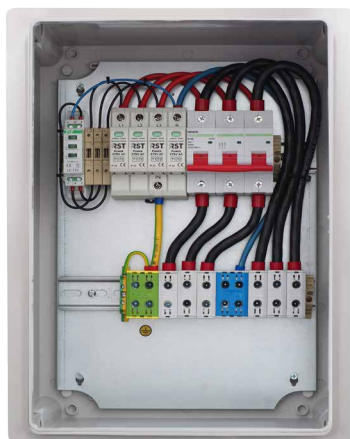
RST PV combiner boxes type AC-1xxx

Basic configuration

- Surge arrester RST Power
- RCD 4P; type A; 100 A; 300 mA
- Circuit breaker 3P
- Switch disconnector FR (-r version)
- Resistant housing Pawbol
- OTL screw connections up to 50 mm²
- Internal connections ≥ 25 mm²
- Phase indicator (-s version)

AC-1100 T1

Type	Surge arrester AC		Circuit breaker	RCD type A	Switch disconnector	Phase indicator	Internal connections
AC-1080	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	3P B80 A	100 A	-	-	25 mm ²
AC-1100	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	3P B100 A	100 A	-	-	35 mm ²
AC-1080r	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	3P B80 A	100 A	FR 100 A	-	25 mm ²
AC-1100r	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	3P B100 A	100 A	FR 100 A	-	35 mm ²
AC-1080rs	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	3P B80 A	100 A	FR 100 A	Included	25 mm ²
AC-1080rs	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	3P B80 A	100 A	FR 100 A	Included	35 mm ²
AC-2080	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	3P B100 A	100 A	-	-	25 mm ²
AC-2100	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	3P B80 A	100 A	-	-	35 mm ²
AC-2080r	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	3P B100 A	100 A	FR 100 A	-	25 mm ²
AC-2100r	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	3P B80 A	100 A	FR 100 A	-	35 mm ²
AC-2080rs	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	3P B100 A	100 A	FR 100 A	Included	25 mm ²
AC-2100rs	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	3P B100 A	100 A	FR 100 A	Included	35 mm ²



AC-1xxx-s0 T1

Optional equipment:

Connection type:

-x OTL screw connections up to 240 mm²

Additional equipment:

-s phase indicator

-rw switch disconnector FR with shunt trip

-p fire safety button (only -rw version)

-0 no RCD, additional OTL connectors

-(RCD) other type RCD device
e.g. (RCD 100 mA)

DC/AC combined protection

Combined DC and AC combiner boxes

✓ Ready to assembly

✓ UV resistant

✓ Degree of protection IP65

✓ Transparent lid

✓ Protection class: II

✓ Modular design



DC-4/AC-4xx

T2

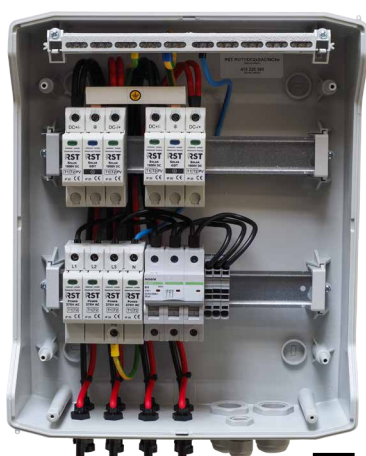
RST PV combiner boxes DC/AC

Basic configuration

- Surge arrester RST Solar
- MC4 Staübli connectors
- Solar cables 6 mm²
- Warning labels
- Noark housing PHS 1000V 24 MOD
- Surge arrester RST Power
- RCD 4P; type A; 40 A; 300 mA (opcja)
- Circuit breaker
- N and PE busbars
- Internal connections ≥ 6 mm²

Type	Surge arresters DC i AC		Strings	MPPT	Circuit breaker	RCD type A	Housing
DC-1/AC-7xx	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	1	1	3P Bxx A	-	24 MOD
DC-3/AC-7xx	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	2	2	3P Bxx A	-	24 MOD
DC-2/AC-8xx	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	1	1	3P Bxx A	-	24 MOD
DC-4/AC-8xx	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	2	2	3P Bxx A	-	24 MOD
DC-1/AC-3xx	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	1	1	3P Bxx A	40 A	24 MOD
DC-3/AC-3xx	Type 1+2	$I_{imp} = 12,5 \text{ kA}_{10/350}$	2	2	3P Bxx A	40 A	24 MOD
DC-2/AC-4xx	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	1	1	3P Bxx A	40 A	24 MOD
DC-4/AC-4xx	Type 2	$I_{max} = 40 \text{ kA}_{8/20}$	2	2	3P Bxx A	40 A	24 MOD

xx - nominal current of circuit breaker: 10, 16, 20 lub 32 A



DC-3/AC-7xx

T1

Optional equipment:

Connection type:

- z additional MC4 connectors for cables
- d PG7 cable glands, connection to the screw terminals of the devices
- w WAGO spring clamps for DC wires
- n additional WAGO clamps for N and PE wires

Additional equipment:

- t(xx A) DC fuse gPV xx A
- rw switch disconnector FR with shunt trip
- p fire safety button (only -rw version)
- (RCD) other type RCD device e.g. (RCD 100 mA)

Surge arresters DC



RST SOLAR T1+T2

T1 T2

Type 1+2 arrester for protection of inverters in ground PV installations or at buildings with a lightning protection system without maintaining separation distances. The Y configuration provides greater withstand of the arrester to damage caused by insulation breakdown in the DC circuit. In addition, the use of a summing spark gap (1000 V version) means no leakage current I_{PE} and extended service life of arresters.



Name	SPD Type	U_{CPV}	Surge withstand	Art. No
RST Solar T1+T2 G 1000V DC	Type 1+2	1 000 V=	$I_{imp} = 12,5 \text{ kA}_{10/350}$	641 402
RST Solar T1+T2 Y 1200V DC	Type 1+2	1 200 V=	$I_{imp} = 12,5 \text{ kA}_{10/350}$	641 502
RST Solar T1+T2 Y 1500V DC	Type 1+2	1 500 V=	$I_{imp} = 10,0 \text{ kA}_{10/350}$	641 506



RST SOLAR T2

T2

Type 2 arrester for protection of inverters in buildings not equipped with a lightning protection system and in case of buildings with LPS where separation distance is maintained. The Y configuration provides greater withstand of the arrester to damage caused by insulation breakdown in the DC circuit. In addition, the use of a summing spark gap means no leakage current I_{PE} and extended service life of arresters.

Name	SPD Type	U_{CPV}	Surge withstand	Art. No
RST Solar T2 G 1000V DC	Type 2	1 000 V=	$I_{max} = 40 \text{ kA}_{8/20}$	642 202
RST Solar T2 G 1200V DC	Type 2	1 200 V=	$I_{max} = 40 \text{ kA}_{8/20}$	642 302

Surge arresters AC



RST POWER T1+T2

T1 T2

Type 1+2 combined arrester to protect the main switchgear or the AC side of the inverter against partial lightning currents. Made in multi-chamber spark gap technology. No leakage current.



Name	SPD Type	U_c	Surge withstand	Art. No
RST Power T1+T2 4+0 275V	Type 1+2	275 V~	$I_{imp} = 12,5 \text{ kA}_{10/350}$	801 404
RST Power T1+T2 1+0 275V	Type 1+2	275 V~	$I_{imp} = 12,5 \text{ kA}_{10/350}$	801 401



RST POWER T2

T1 T2

Type 2 varistor arrester to protect local switchboards or the AC side of the inverter against induced and switching overvoltages.

Name	SPD Type	U_c	Surge withstand	Art. No
RST Power T2 4+0 275V	Type 2	275 V~	$I_{max} = 40 \text{ kA}_{8/20}$	802 204
RST Power T2 1+0 275V	Type 2	275 V~	$I_{max} = 40 \text{ kA}_{8/20}$	802 201



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