

ABB KABELDON

Distribution boards for EV charging

Efficient, reliable and flexible grid connection



Every charging station requires an effective, reliable and flexible grid connection. With standardized outdoor distribution boards from ABB it is easier than ever to configure, order and install the right solution for each individual ABB charger.



Reliable outdoor installation

The system is designed and approved for outdoor installation with documented long life time. Both distribution and kWh metering can be done in the distribution board. No indoor electrical room is required, which saves both space and costs.



Simple and safe expansion

If the EV charging park needs to be expanded it is simple to add extra outgoing feeders, as long as there is capacity to increase incoming main fuse. The distribution board can also be designed with empty space intended for future installation of switches for extra incoming cables.



Save cost of power cables

Instead of feeding each EV charger from a remote large power station, the distribution board can be fed with one main service cable and then feed each separate charger from a shorter distance.



[link to web page](#)

Choose the right distribution board for your charger

Here you can see which distribution board is suitable for your charger. ABB Kabeldon have taken simplicity to the next level by standardizing an outdoor distribution board that fulfills the power and protection need for each ABB charger. The distribution board is delivered with main switch fuse, transformer kit for CTs and mounting plate for kWh meter installed from factory.

All you need to do is to add your meter with CTs and add the right number of outgoing Kabeldon fuse switch disconnectors for the number of chargers to be installed.

The distribution boards are tested to IEC 61439-1,-5 which approve placement in public environments. It's hot dip galvanized as standard but can also be painted in your choice of color. What about a white enclosure matching with the white charger?

Beside the standardized distribution boards we can also provide custom made configurations upon request. The distribution boards can for example be configured with MCCB from SACE or be expanded by mounting several enclosures side by side.

For special requests and custom made configurations please contact us.





Terra AC wallbox

A qualitative EV charger that offers the best value on the market for home or office use.

Required power:

Max. Output power 7.4–22 kW

Max. Input current 32 A

Suitable distribution boards:

CDCS 63 M (Direct metering), **CDCS 12515** (CT metering)

CDCS 63 M

- Main switch: 63 A (switch)
- Direct metering
- Space for feeding 1 charger 63 A, Diazed fuse.
- Terminals placed under sealable lid.
- Cable terminals for Al/Cu 6–50 mm² as default.
- 5+7 available DIN-modules for mounting of eg. MCB, RCCB or schuko plug.
- Place for utility overvoltage protection under sealable lid.



Terra DC wallbox

Supports current and future EVs with continuous high voltage charging.

Required power:

Max. Output power 24 kW

Max. Input current 40 A

Suitable distribution boards:

CDCS 12515, **CDCS 35518**

CDCS 12515

- Main switch: 125–355 A (switch fuse)
- Transformer kit for mounting of CT for kWh meter.
- Adapted to TN-C-S.
- Space for feeding 4 chargers via fuse switch disconnecter SLD 000, 100 A, NH 000 fuse.
- Chargers can also be fed via ABB XT circuit breaker with adapter plate Kabeldon APXT.



Terra DC fast charger

EV fast charger that can serve all electric vehicles (hybrids and plug-in) on the market.

Required power:

Max. Output power 22–180 kW

Max. Input current 32–310 A

Suitable distribution boards:

CDCS 12515, **SDCS 35518**, **SDCS 63026**, **SDCS 63051**

- Input current: 125–630 A (switch fuse)
- Transformer kit for mounting of CT for kWh meter.
- Adapted to TN-C-S.
- Space for feeding chargers via SLD fuse switch disconnectors or via ABB XT circuit breaker with adapter plate Kabeldon APXT.



Terra DC high power

High power charging station for current and next generation electric vehicles.

Required power:

Max. Output power 350 kW

Max. Input current 308 A per power cabinet

Suitable distribution board:

SDCS 63026

- Input current: 630 A (switch fuse)
- Transformer kit for mounting of CT for kWh meter.
- Adapted to TN-C-S.
- Space for feeding 2 power cabinets/chargers (2 pcs SLD 2, 400 A fuse switch disconnecter).
- Chargers can also be fed via ABB XT circuit breaker with adapter plate Kabeldon APXT.

Selection guide for Terra EV charging grid connection products

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The KLIP DB is a standardized pre-assembled distribution board platform. It is complemented with fuse switch disconnectors and PE+N terminals for the number of chargers to feed.

1. Find your charger and the required input power rating in the left columns
2. Go to the column for the number of chargers.
3. Pick the Kabeldon components and the quantity of each.

Charger	Input power rating	Kabeldon components for LV grid connection	Number of chargers												
			1			2			3			4			
			Qty	Name	Item	Qty	Name	Item	Qty	Name	Item	Qty	Name	Item	
Terra AC wallbox	IEC ratings: Single phase up to 7.4 kW / 32 A Three phase up to 22 kW / 32 A	KLIP DB	1	CDCS 12515	2CGX063301122	1	CDCS 12515	2CGX063301122	1	CDCS 12515	2CGX063301122	1	SDCS 35518	2CGD000731A1000	
		Ground mounted foundation		Included	-		Included	-		Included	-	1	MARK-S 48	2CGX063300439	
		Fuse switch disconnector	1	SLD 000	2CGX063050106	2	SLD 000	2CGX063050106	3	SLD 000	2CGX063050106	4	SLD 000	2CGX063050106	
		PE+N terminal	2	ADU 95	2CGD000498A1000	4	ADU 95	2CGD000498A1000	6	ADU 95	2CGD000498A1000	8	ADU 95	2CGD000498A1000	
Terra DC wallbox	Type 4: CCS 2, CHAdeMO, 24 kW IEC version, 3-phase, 40 A	KLIP DB	1	CDCS 12515	2CGX063301122	1	CDCS 12515	2CGX063301122	1	CDCS 12515	2CGX063301122	1	SDCS 35518	2CGD000731A1000	
		Ground mounted foundation		Included	-		Included	-		Included	-	1	MARK-S 48	2CGX063300439	
		Fuse switch disconnector	1	SLD 000	2CGX063050106	2	SLD 000	2CGX063050106	3	SLD 000	2CGX063050106	4	SLD 000	2CGX063050106	
		PE+N terminal	2	ADU 95	2CGD000498A1000	4	ADU 95	2CGD000498A1000	6	ADU 95	2CGD000498A1000	8	ADU 95	2CGD000498A1000	
Terra 24	CJ: 32 A, 23 kVA @ 50 Hz DC output power rating 20 kW	KLIP DB	1	CDCS 12515	2CGX063301122	1	CDCS 12515	2CGX063301122	1	CDCS 12515	2CGX063301122	1	SDCS 35518	2CGD000731A1000	
		Ground mounted foundation		Included	-		Included	-		Included	-	1	MARK-S 48	2CGX063300439	
		Fuse switch disconnector	1	SLD 000	2CGX063050106	2	SLD 000	2CGX063050106	3	SLD 000	2CGX063050106	4	SLD 000	2CGX063050106	
		PE+N terminal	2	ADU 95	2CGD000498A1000	4	ADU 95	2CGD000498A1000	6	ADU 95	2CGD000498A1000	8	ADU 95	2CGD000498A1000	
	CT, CG, CJG: 63 A, 43 kVA @ 50 Hz DC output power rating 20 kW AC output power rating 22 or 43 kW	KLIP DB	1	CDCS 12515	2CGX063301122	1	SDCS 35518	2CGD000731A1000	1	SDCS 35518	2CGD000731A1000	1	SDCS 63026	2CGD000366A1000	
		Ground mounted foundation		Included	-		MARK-S 48	2CGX063300439	1	MARK-S 48	2CGX063300439	1	MARK-S 73	2CGX063300549	
		Fuse switch disconnector	1	SLD 000	2CGX063050106	2	SLD 000	2CGX063050106	3	SLD 000	2CGX063050106	4	SLD 000	2CGX063050106	
		PE+N terminal	2	ADU 95	2CGD000498A1000	4	ADU 95	2CGD000498A1000	6	ADU 95	2CGD000498A1000	8	ADU 95	2CGD000498A1000	
Terra 54	C, CJ: 88 A, 55 kVA @ 50 Hz DC output power rating 50 kW	KLIP DB	1	CDCS 12515	2CGX063301122	1	SDCS 35518	2CGD000731A1000	1	SDCS 63026	2CGD000366A1000	1	SDCS 63026	2CGD000366A1000	
		Ground mounted foundation		Included	-		MARK-S 48	2CGX063300439	1	MARK-S 73	2CGX063300549	1	MARK-S 73	2CGX063300549	
		Fuse switch disconnector	1	SLD 000	2CGX063050106	2	SLD 000	2CGX063050106	3	SLD 000	2CGX063050106	4	SLD 000	2CGX063050106	
		PE+N terminal	2	ADU 95	2CGD000498A1000	4	ADU 95	2CGD000498A1000	6	ADU 95	2CGD000498A1000	8	ADU 95	2CGD000498A1000	
	CT, CJT, CG, CJG: 112 A, 77 kVA @ 50 Hz DC output power rating 50 kW AC output power rating 22 or 43 kW	KLIP DB	1	CDCS 12515	2CGX063301122	1	SDCS 35518	2CGD000731A1000	1	SDCS 63026	2CGD000366A1000	Contact your sales person for a customized solution			
		Ground mounted foundation		Included	-		MARK-S 48	2CGX063300439	1	MARK-S 73	2CGX063300549				
		Fuse switch disconnector	1	SLD 00	2CGX063050107	2	SLD 00	2CGX063050107	3	SLD 00	2CGX063050107				
		PE+N terminal	2	ADU 95	2CGD000498A1000	4	ADU 95	2CGD000498A1000	6	ADU 95	2CGD000498A1000				
	CG, CJG: 143 A, 98 kVA @ 50 Hz DC output power rating 50 kW AC output power rating 22 or 43 kW	KLIP DB	1	SDCS 35518	2CGD000731A1000	1	SDCS 63026	2CGD000366A1000	Contact your sales person for a customized solution						
		Ground mounted foundation	1	MARK-S 48	2CGX063300439	1	MARK-S 73	2CGX063300549							
		Fuse switch disconnector	1	SLD 00	2CGX063050107	2	SLD 00	2CGX063050107							
		PE+N terminal	2	ADU 95	2CGD000498A1000	4	ADU 95	2CGD000498A1000							

NOTE: 250 A is considered as the maximum input current rating of the feeder cables to the KLIP DB.

Selection guide for Terra EV charging grid connection products

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The KLIP DB is a standardized pre-assembled distribution board platform. It is complemented with fuse switch disconnectors and PE+N terminals for the number of chargers to feed.

1. Find your charger and the required input power rating in the left columns
2. Go to the column for the number of chargers.
3. Pick the Kabeldon components and the quantity of each.

Charger	Input power rating	Kabeldon components for LV grid connection	Number of chargers											
			1			2			3			4		
			Qty	Name	Item	Qty	Name	Item	Qty	Name	Item	Qty	Name	Item
Terra 94	C, CC, CJ: 140 A, 96 kVA @ 50 Hz DC output power rating 90 kW	KLIP DB	1	SDCS 35518	2CGD000731A1000	1	SDCS 63026	2CGD000366A1000	Contact your sales person for a customized solution			Contact your sales person for a customized solution		
		Ground mounted foundation	1	MARK-S 48	2CGX063300439	1	MARK-S 73	2CGX063300549						
		Fuse switch disconnector	1	SLD 00	2CGX063050107	2	SLD 00	2CGX063050107						
		PE+N terminal	2	ADU 95	2CGD000498A1000	4	ADU 95	2CGD000498A1000						
	CCT/CJT: 170 A, 118 kVA @ 50 Hz DC output power rating 90 kW AC output power rating 22 kW	KLIP DB	1	SDCS 35518	2CGD000731A1000	1	SDCS 63026	2CGD000366A1000	Contact your sales person for a customized solution			Contact your sales person for a customized solution		
		Ground mounted foundation	1	MARK-S 48	2CGX063300439	1	MARK-S 73	2CGX063300549						
		Fuse switch disconnector	1	SLD 1	2CGX063050108	2	SLD 1	2CGX063050108						
		PE+N terminal	2	ADU 300	2CGD000502A1000	4	ADU 300	2CGD000502A1000						
Terra 124	C, CC, CJ: 187 A, 128 kVA @ 50 Hz DC output power rating 120 kW	KLIP DB	1	SDCS 35518	2CGD000731A1000	1	SDCS 63026	2CGD000366A1000	1	SDCS 63051	2CGD000365A1000	Contact your sales person for a customized solution		
		Ground mounted foundation	1	MARK-S 48	2CGX063300439	1	MARK-S 73	2CGX063300549	1	MARK-S 98	2CGX063300440			
		Fuse switch disconnector	1	SLD 1	2CGX063050108	2	SLD 1	2CGX063050108	3	SLD 1	2CGX063050108			
		PE+N terminal	2	ADU 300	2CGD000502A1000	4	ADU 300	2CGD000502A1000	6	ADU 300	2CGD000502A1000			
	CCT/CJT: 217 A, 150 kVA @ 50 Hz DC output power rating 120 kW AC output power rating 22 kW	KLIP DB	1	SDCS 35518	2CGD000731A1000	1	SDCS 63026	2CGD000366A1000	Contact your sales person for a customized solution			Contact your sales person for a customized solution		
		Ground mounted foundation	1	MARK-S 48	2CGX063300439	1	MARK-S 73	2CGX063300549						
		Fuse switch disconnector	1	SLD 1	2CGX063050108	2	SLD 1	2CGX063050108						
		PE+N terminal	2	ADU 300	2CGD000502A1000	4	ADU 300	2CGD000502A1000						
Terra 184	C, CC, CJ: 280 A, 192 kVA @ 50 Hz DC output power rating 180 kW	KLIP DB	1	SDCS 63026	2CGD000366A1000	1	SDCS 63026	2CGD000366A1000	Contact your sales person for a customized solution			Contact your sales person for a customized solution		
		Ground mounted foundation	1	MARK-S 73	2CGX063300549	1	MARK-S 73	2CGX063300549						
		Fuse switch disconnector	1	SLD 2	2CGX063050109	2	SLD 2	2CGX063050109						
		PE+N terminal	2	ADU 300	2CGD000502A1000	4	ADU 300	2CGD000502A1000						
	CCT/CJT: 310 A, 214 kVA @ 50 Hz DC output power rating 180 kW AC output power rating 22 kW	KLIP DB	1	SDCS 63026	2CGD000366A1000	1	SDCS 63026	2CGD000366A1000	Contact your sales person for a customized solution			Contact your sales person for a customized solution		
		Ground mounted foundation	1	MARK-S 73	2CGX063300549	1	MARK-S 73	2CGX063300549						
		Fuse switch disconnector	1	SLD 2	2CGX063050109	2	SLD 2	2CGX063050109						
		PE+N terminal	2	ADU 300	2CGD000502A1000	4	ADU 300	2CGD000502A1000						
Terra HP	AC input to power cabinet 308 A peak @ 360 VAC (175 kW output, 160 kW continuous) (components per no. of power cabinets)	KLIP DB	1	SDCS 63026	2CGD000366A1000	1	SDCS 63026	2CGD000366A1000	Contact your sales person for a customized solution			Contact your sales person for a customized solution		
		Ground mounted foundation	1	MARK-S 73	2CGX063300549	1	MARK-S 73	2CGX063300549						
		Fuse switch disconnector	1	SLD 2	2CGX063050109	2	SLD 2	2CGX063050109						
		PE+N terminal	2	ADU 300	2CGD000502A1000	4	ADU 300	2CGD000502A1000						

NOTE: 250 A is considered as the maximum input current rating of the feeder cables to the KLIP DB.



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