



TCC

FOR CHARGING OF ELECTRIC VEHICLES



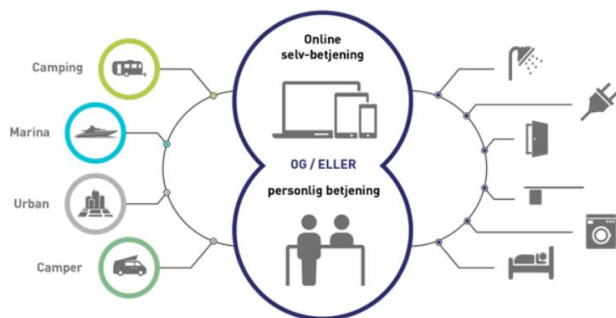
DATABLAD



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UK – v1.0

INTRODUCTION



TCC is a standard charger that can charge electric cars with up to 22KW via the type 2 socket. TCC uses sockets and does not have cables, the guest should use his own cable. It is possible to charge 2 cars at a time. It can be charged with both 1, 2 and 3 phases.

TCC is integrated with TallyWeb, it means that customers have the opportunity to serve themselves.

The maximum charging current (6... 32A) can be set for each socket and total for the charging pedestal so that it is matched with the supply cables to the pedestal.

The Sockets are equipped with an electronic lock that locks the socket during the charging session so it can not be disturbed by outsiders. When the charging is complete, the socket is released so other users can use the available socket.

Access to the inside of the pedestal behind the door is protected with a key. All electrical components are sealed in an inner climate shell with a transparent lid and are therefore extra well protected against wind and weather while control of protection and reading of the meter reading is possible without opening the climate shell.

TCC has a built-in statutory RCD type B, a circuit breaker and a consumption counter for each socket.

TCC has a unique radio address listed on the front of the controller, this address can be used to identify the device in TallyWeb.

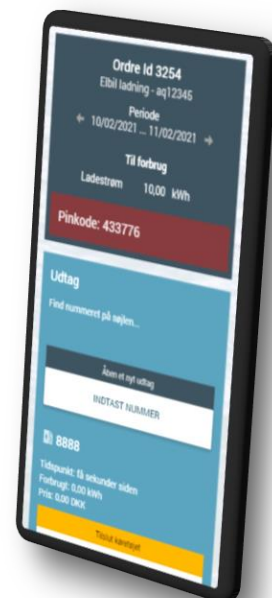


DAILY USE

TCC is controlled by the user from his mobile phone and therefore does not have a keypad or card reader.

The status of charging is seen on the mobile and the light by the socket indicates whether the socket is free, charging or has a fault.

TCC has marker lights at the top of the pedestal.



Light status in the sockets

- Fixed light -> Free / Charging completed
- Pulsing light -> Ready to charge
- A short flash -> Confirm cable insertion
- Ramping up -> Charging in progress
- Slow blink -> Lock or charging error
- Fast blink -> RCD or circuit breaker is switched off



SPECIFICATIONS

Size

- Height: 122.6 cm
- Width: 22.0 cm
- Depth: 15.5 cm

Supply

- 3P + N + PE
- Voltage: 3 x 230Vac
- Current: 32A / 63A
- Idle consumption: < 5W

Charging properties

- Type 2 socket with motor lock
- Voltage: 1x230Vac / 3x400Vac
- Max. current: 32Aac
- Max. power: 22KW
- Residual current (AC): 30mA
- Residual current (DC): 6mA

Temperature range

- -20 til +60 °C

Protection Rating

- Closed socket: IP44
- Open socket: IP43
- Pedestal body: IP44
- Climate shell: IP65

Radio:

- Radiofrequency 433 MHz EU ISM-band
- Link range up to 50 meters to the nearest other radio

Antenna

- Built-in at the top of the pedestal

APPROVALS

- 433 MHz EU ISM-band: REC 73-03, 9. February 2011, Annex 1, f
- CE – 2014/30/EU
- EMC DS/EN IEC 61000-6-3
- RoHS – 2011/65/EU
- UL 94V0
- IEC 62196

CONNECTIONS

2 pcs. Ø40mm cable gland at the bottom of the climate shell.

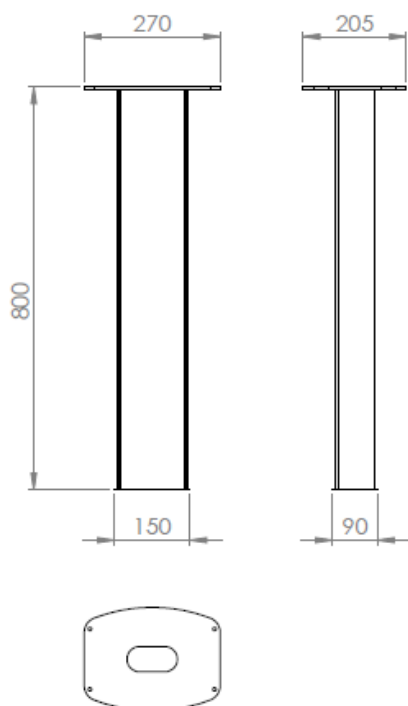
Terminal block X1

L1	400Vac Phase (max 50mm ²)
L2	400Vac Phase (max 50mm ²)
L3	400Vac Phase (max 50mm ²)
N	Neutral (max 50mm ²)
PE	Protective Earth (max 2 x 50mm ²)



INSTALLATION

- The pedestal should be placed so at least 2 and preferably 4 cars can access it.
- The pedestal must be protected against accidental collisions from cars
- The mounting base is buried and the supply cables are routed through the flange
- The pedestal is fitted with safety washers to the base and thus ensured against major damage in case of collision



- All set up and access is done from the TallyWeb administration
- The overall brightness of the top and sockets can be set by Tallykey between 50 and 100%
- The total charging current of the pedestal and the maximum current per connector are set in the administration
- Phase rotation for multi-pedestal installations is recommended as some vehicles only charge with 1 phase. Sockets 1 and 2 are internal phase switched on L1 and L3. See the application example at the end of this document.

PROBLEM-SOLVING

TCC is offline

- Is there a steady light in the green Link indicator on TWEV-c? If it flashes, there is no connection to the TallyBee network.
- The yellow Activity indicator flashes when the TWEV-c is communicating with the TallyBee network.
- Check the antenna connection and location with the nearest radio
- Check that Master Radio is online (there must be a green light in "Power" and "PC / server com OK" on Master Radio)
- Verify that TWEV-c with this address is Online in the TallyWeb administration
- From TallyWeb administration, the Master radio must be opened for registration of new devices

The light in a socket is flashing fast

- If there is no cable in the socket, the RCD is probably disconnected - Open the pedestal with the keys, open the climate shell and reconnect the relay. After a while, the flashing should stop when the supply is detected.

OPERATION

- Setup of access and settlement takes place in the TallyWeb administration
- All operation and logging takes place from the TallyWeb administration

CLEANING

- Never use alkaline cleaning agents
- The outside of the pedestal can be wiped with a damp cloth, do not use a high-pressure cleaner.
- Aluminum surfaces can be treated with silicone-free Alu-Protect (Hempel)

CONTACT INFORMATION

Contact	Email	Phone
Service & Support	support@tallykey.dk	+45 40 97 30 63

SPARE PARTS

Item	Order number
TWEC-c (control unit)	TWEV-c
Burring base	53-166
Safety washer set with 20 pcs	SWS
Keyset with lock	66-001
Locking tongue	58-100
Cable entry	81-086
Motor lock + Type 2 socket	02-121
Power supply 230VAC/24VDC 36W - coated	84-029
MCB 10A 1P type c	06-020
EM340 Meter	16-058
RDC 40A type b	03-030
Mains breaker 4P 63A	06-074
MCB 32A 3P type c	06-014
Contactor 32A 3P 24V coil	05-052

APPLICATION EXAMPLE

Phasing of several pedestals on the same string as well as a table for setting up maximum charging current in relation to number of pedestals and the fuse.

Fuse	TCC 1	TCC 2	TCC 3
32A	16A (8A+8A)	16A (8A+8A)	
63A	32A (16A+16A)	32A (16A+16A)	
125A	64A (32A+32A)	64A (32A+32A)	
63A	20A (10A+10A)	20A (10A+10A)	20A (10A+10A)
125A	32A (16A+16A)	32A (16A+16A)	32A (16A+16A)
200A	64A (32A+32A)	64A (32A+32A)	64A (32A+32A)

