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EVB CHARGING ARM



TECHNICAL INFORMATION

POWER SUPPLY	
Rated supply voltage 3f 230/400 [V].	3f 230/400 [V]
Rated insulation voltage 500/690 [V]	500/690 [V]
Rated frequency 50 [Hz].	50 [Hz]
Surge voltage withstand 4 [kV].	4 [kV]
Mains layout TN-S / TN-C-S / TT	TN-S / TN-C-S / TT
Efficiency up to 95 [%].	do 95 [%]
Power factor $\cos\Phi$ 0,95 [-]	0,95 [-]

CHARGING POINTS	
Number of DC charging points	3
DC plug type	CCS-2
Connecting arm	Expandable
DC output voltage	150~1000 [V]
Maximum DC charging point current CCS-2	up to 400 [A] (depending on the DC charging cable used)
Charging point standard	IEC 62196-3 charging mode 4
Length of charging cable	up to 7 [m].

COMMUNICATION	
Communication with the operator	OCPP 1.6J (OCPP 2.0)
Optional display screen for alarms and charging station status	Graphic display 10"
Communication interfaces	Ethernet, 3G/LTE
Payment card terminal	yes

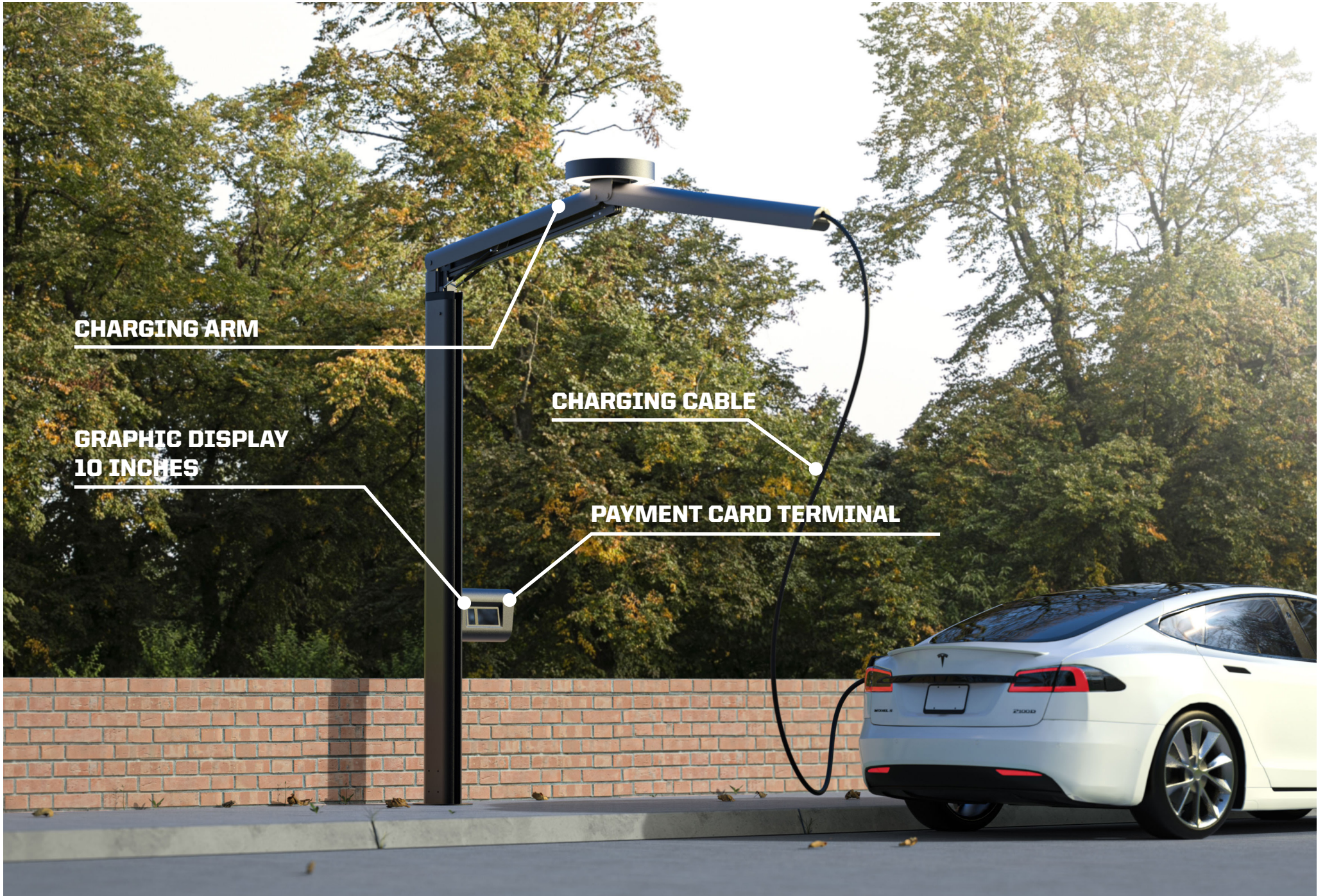
ENVIRONMENTAL CONDITIONS	
Degree of mechanical resistance IK	10
Operating temperature	-25°C to +45°C
Moisture	<95 [%]

HOUSING	
Protection class	I
IP degree of protection	54

EV420	
Total output power	480 [kW]
Power of a single charging point	380 [kW]

EV150	
Total output power	480 [kW]
Power of a single charging point	380 [kW] and 150 [kW] (for point equipped with charging arm)





CHARGING ARM

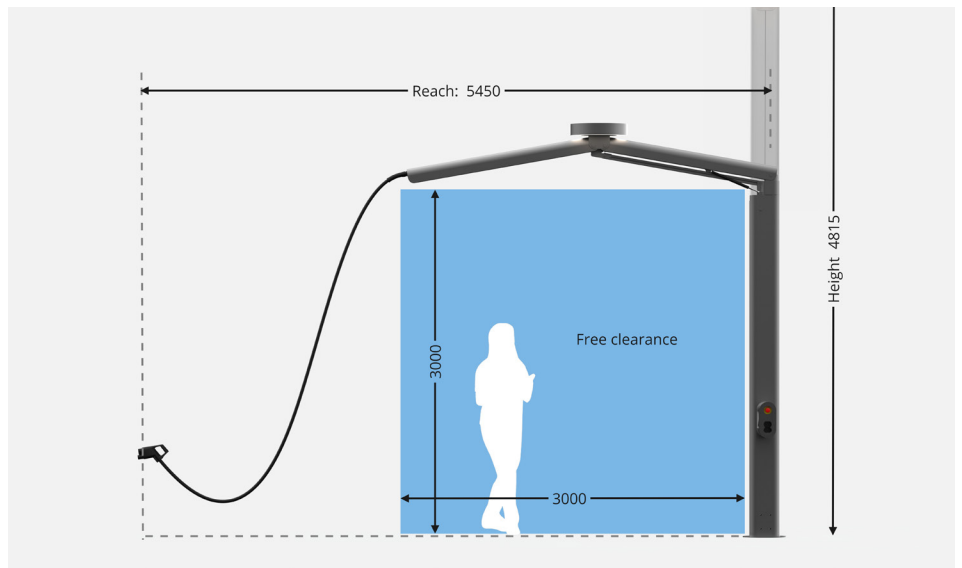
CHARGING CABLE

**GRAPHIC DISPLAY
10 INCHES**

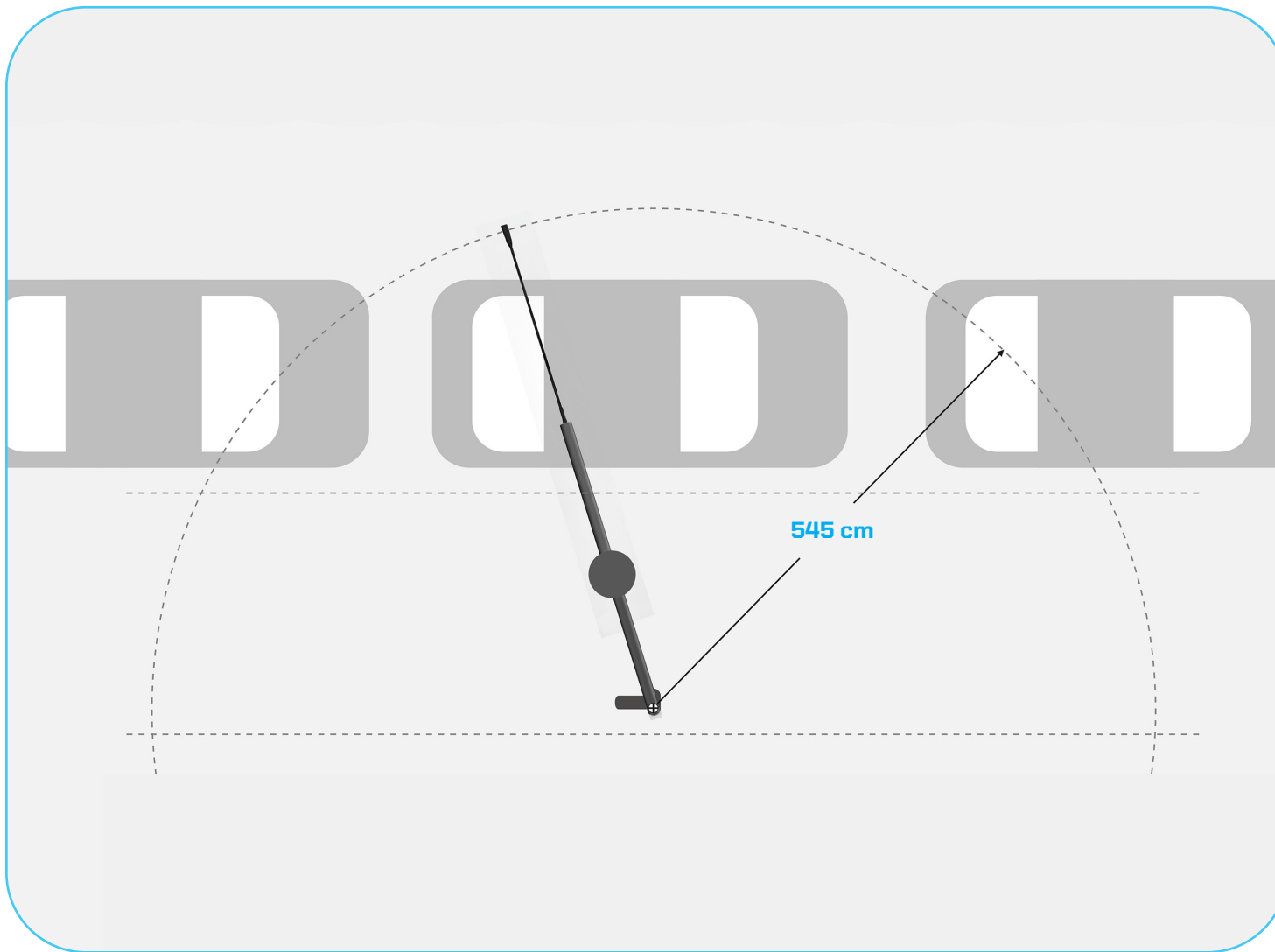
PAYMENT CARD TERMINAL



CHARGING ARM EV150



EV150 RANGE



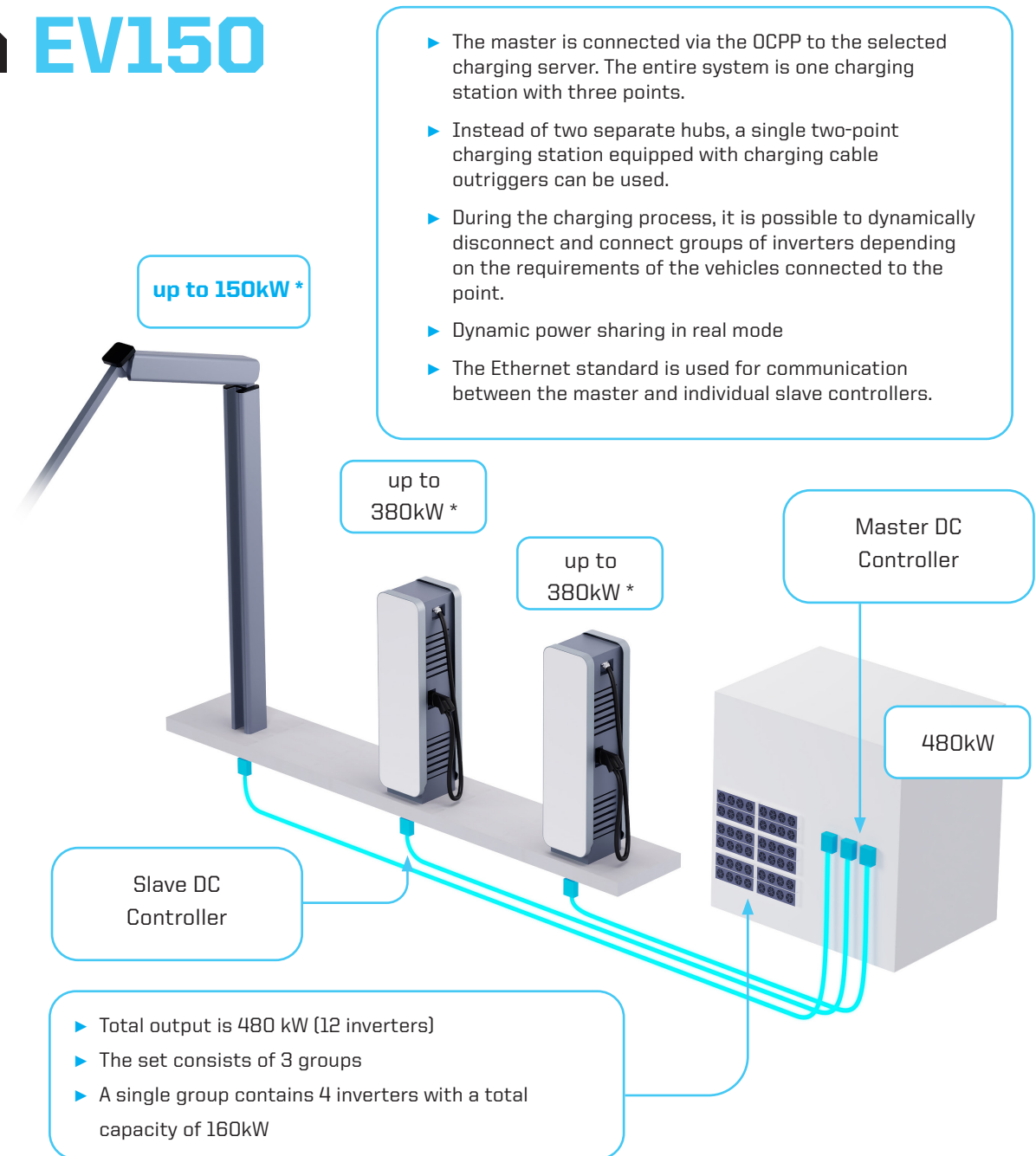
EVB Power HUB with EV150

FEATURES OF THE SELECTED OPTION:

- ▶ The total power obtained for the whole set is 480kW
- ▶ The maximum power for a single charging point is 380kW (for a point equipped with a charging arm the maximum power is 150 kW)
- ▶ There are three independent groups of inverters (4 inverters each) with a total capacity of 160kW
- ▶ Dynamic power sharing between hubs
- ▶ Wide working range of the loading arm
- ▶ Future possibility of using the MCS standard (Megawatt Charging System)
- ▶ Great flexibility of the system - e.g. charging arms alone can be used as hubs

PRINCIPLE OF OPERATION:

The master controller, located in the central housing, dynamically manages the three hubs (Slaves). During the charging process, it is possible to dynamically disconnect/connect groups of inverters depending on their availability. Communication between the controllers is implemented using the Ethernet standard.



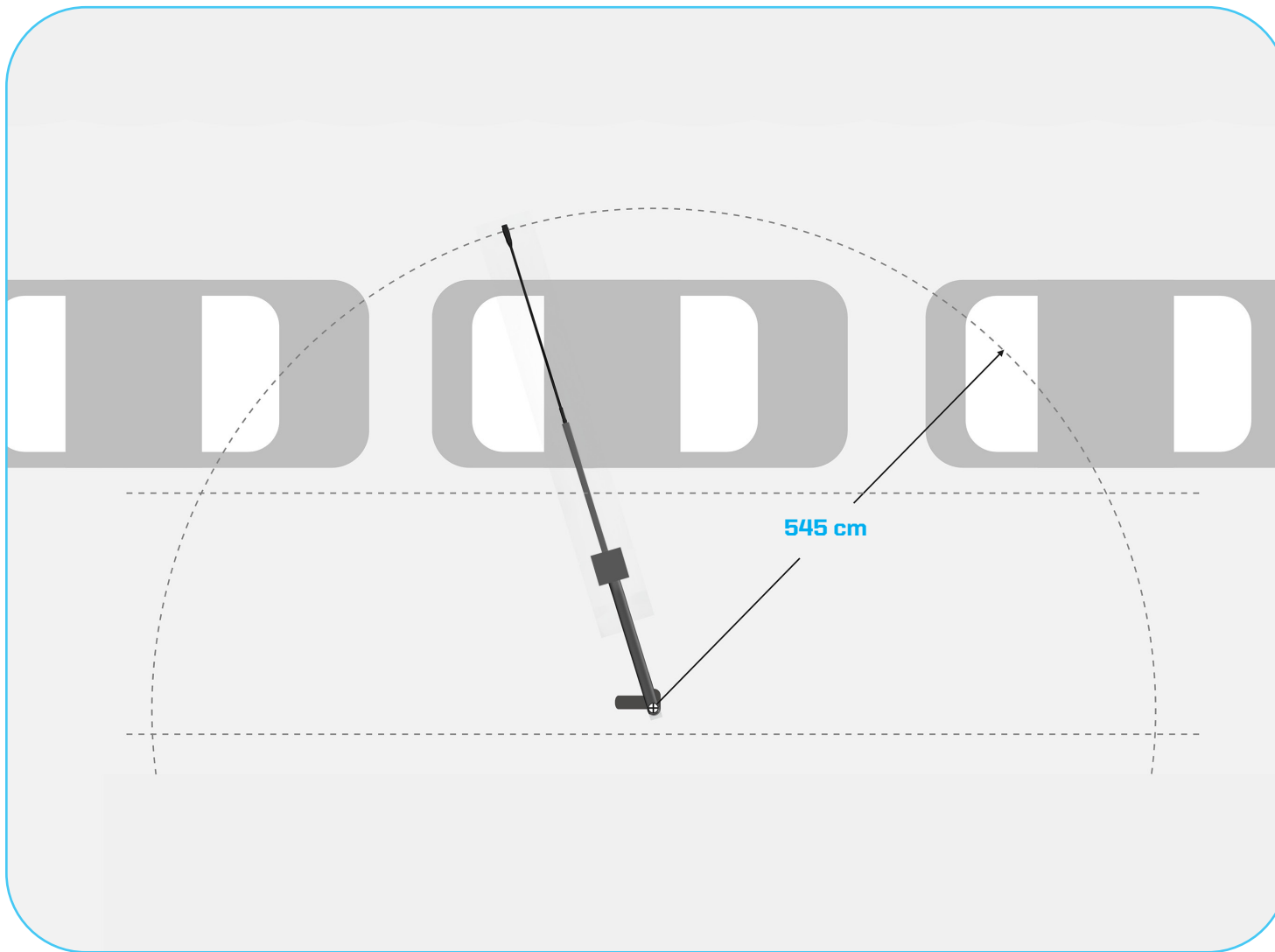
A 380 kW power output is possible for vehicles charged at a higher voltage, such as 960V. The maximum current for the cable is 400 A in boost mode.



CHARGING ARM EV420



EV420 RANGE



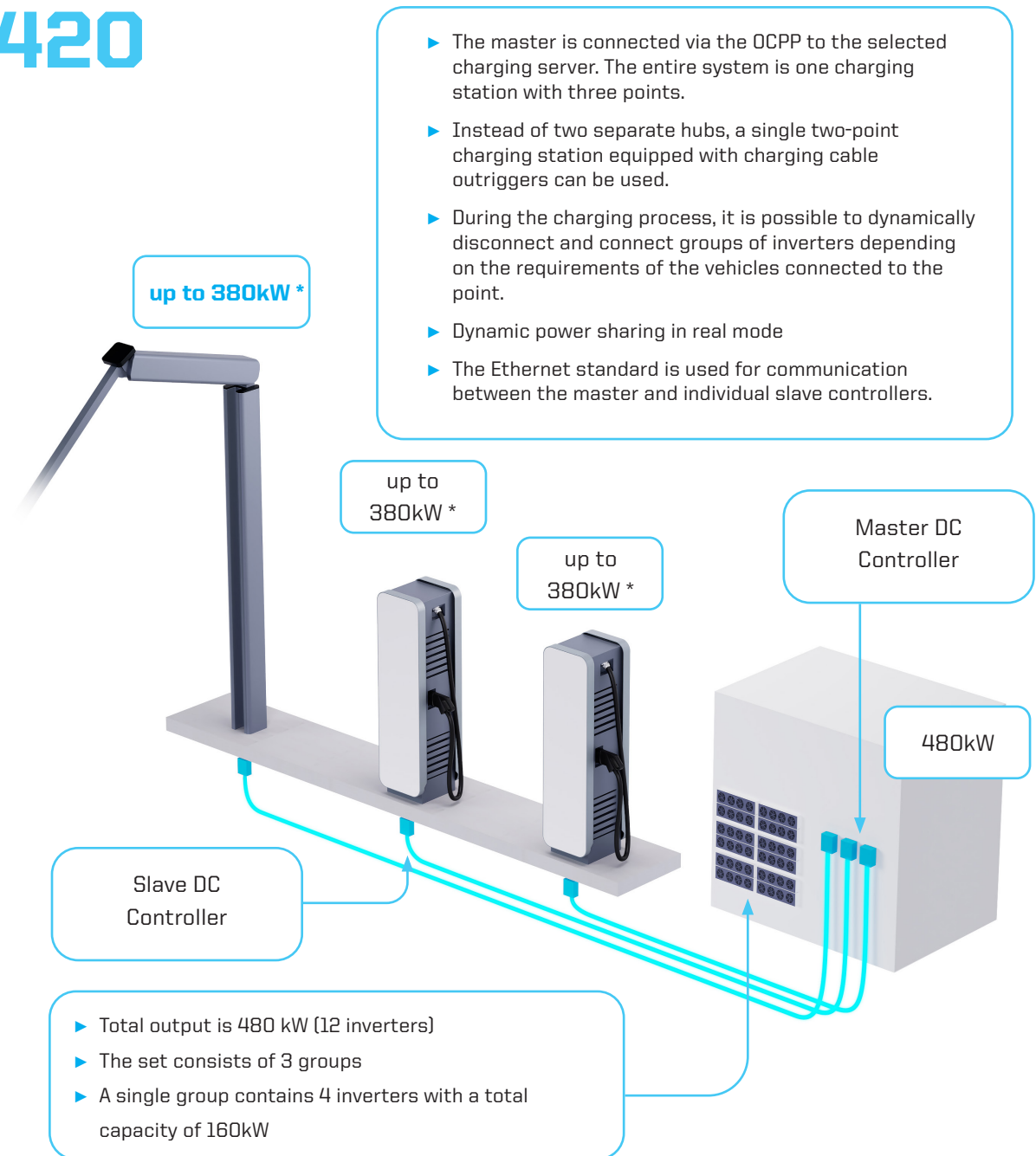
EVB Power HUB z EV420

FEATURES OF THE SELECTED OPTION:

- ▶ The total power obtained for the whole set is 480kW
- ▶ The maximum power for a single charge point is 380kW
- ▶ There are three independent groups of inverters (4 inverters each) with a total capacity of 160kW
- ▶ Dynamic power sharing between hubs
- ▶ Wide working range of the loading arm
- ▶ MCS (Megawatt Charging System) possible in future
- ▶ Great flexibility of the system - e.g. charging arms alone can be used as hubs

PRINCIPLE OF OPERATION

The master controller, located in the central housing, dynamically manages the three hubs (Slaves). During the charging process, it is possible to dynamically disconnect/connect groups of inverters depending on their availability. Communication between the controllers is implemented using the Ethernet standard.



A 380 kW power output is possible for vehicles charged at a higher voltage, such as 960V.
The maximum current for the cable is 400 A in boost mode.



CONTACT

MOBILE: +48 696 673 646

E-MAIL: OFFICE@EVBGROUP.PL

WWW.EVBGROUP.PL