

# tuncmatik

## Mini DC Charger

### 30/60 kW

#### Mini DC Charger

Tuncmatik Mini DC Charger fast charging device, has the ability to charge your vehicles with fast DC charging abilities at places without strong electrical infrastructure with the performance of charging your vehicle approximately 4 times faster with 30kW models and 8 times faster with 60kW models than many normal AC Chargers (as it is not limited by the on-board charger(OBC)). This way, it offers an effective solution in locations where the energy infrastructure is not suitable for large power devices such as 180 kW. Offering fast and efficient charging, Tuncmatik Mini DC Charger enables electric vehicle drivers to return to the road as soon as possible. Thanks to it's features, it is an excellent choice for short stop locations, highway rest stops and gas stations.








#### Other features;

- IP54 protection, IK10 vandal-proof enclosure and IK8 touch screen
- Remote firmware upgrade
- Remote diagnostic function simplifies data collection and analysis process
- Standard charging capacity up to 300A
- Standard output voltage range between 200-1000VDC
- Optional CCS1 and CHAdeMO sockets are available
- User Authentication via RFID and QR Code
- GSM, 3G, 4G, LTE Cellular and Ethernet(RJ45) Connectivity
- OCPP 1.6J communication protocols
- Integrated surge protection
- Grounding fault including DC leakage protection

#### Usage Areas

- Houses/Apartments
- Villas
- Fleet
- Public Charge Stations
- Shopping Centers
- Parking Garages
- Amusement Centers
- Petrol Stations
- Bussiness Centers
- Shortstop locations
- University Campuses
- Sites



<b>ŞARJ TÜRÜ</b> <b>FAST DC</b> <small>CHARGE TYPE</small>	<b>SOKET ADETI</b> <b>1/2</b> <small>NUMBER OF GUNS</small>
<b>YÜKSEK VERİM</b>  <small>HIGH EFFICIENCY</small>	<b>ÇIKIŞ VOLTAJ ARALIĞI</b> <b>200-1000 VDC</b> <small>OUTPUT VOLTAGE</small>
<b>GSM</b>  <small>GSM</small>	<b>HABERLEŞME</b> <b>OCPP 1.6J</b> <small>COMMUNICATION</small>
<b>4G</b> <b>4G</b> <small>4G</small>	<b>LTE</b> <b>lte</b> <small>LTE</small>
<b>KORUMA SINIFI</b> <b>IP54</b> <small>PROTECTION CLASS</small>	<b>RFID</b>  <small>RFID</small>
<b>ETHERNET (RJ45)</b>  <small>ETHERNET (RJ45)</small>	<b>TAM KORUMA</b>  <small>FULL PROTECTION</small>
<b>QR CODE</b>  <small>QR CODE</small>	<b>DOKUNMATİK LCD EKRA</b>  <small>LCD TOUCHSCREEN</small>

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#### LED Indicators



Idle

Charging

Fault

#### Supports all kinds of charging sockets (Customized cable length)



CCS2  
(standard)



CHAdeMO  
(optional)



CCS1  
(optional)

#### EPO (Emergency Button) button to immediately stop the charging station for safety

The EPO button can be used in the following situations:

- If a fire alarm, electric shock or earth leakage occurs in your Tuncmatik DC fast charging device,
- Internal malfunction, unable to stop charging, fast DC charging device internal wiring problem
- If water gets inside the cabinet or if an abnormal audible alarm is triggered

NOTE: When the EPO button is pressed, the DC fast charging device will stop charging and the fault indicator will light up. If you press this button accidentally, simply turn this button to the right to recover this action.

#### 7" LCD touch display



#### In-built RFID Reader



NFC sensing area (No indication for this icon. To start or stop charging, please put NFC card nearby this area)

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MODEL		30 kW	60 kW
Charging Type		DC Fast Charging	
INPUT			
Phase		3P + N + PE	
AC Input Power		33 kVA / 48A @400V 50Hz	64 kVA / 93A @400V 50Hz
Voltage Range		400 VAC or 380 VAC ±10%	
Frequency		50 / 60 Hz	
THDi		≤ %5	
Line		TN-S, TN-C, TN-C-S, TT (Required external RCD)	
OUTPUT			
Power Factor		≥ 0.98	≥ 0.99
DC Output Voltage		200-1000 VDC	
Efficiency		≥ %93	
Max. Current	CCS Cable	80A	150A
	CHAdeMO Cable	60A	125A
Standby Power		< 35W	
Pre-Charge Current		< 1A	
Inrush Current		< 55A	< 100A
Leakage Current		0.8 mA	
SOCKET & CABLE			
Socket Option		CCS2 (CCS1 & CHAdeMO optional), Single Socket	CCS2 (CCS1 & CHAdeMO optional), Double Socket
Number of EV Served		1	2
Cable Length		5m (Optional 6-7m)	5m (Optional 6-7m)
SYSTEM FEATURES			
Energy Metering		Standard: Meter for DC output, Optional: AC input	
Protection		Overcurrent, overvoltage, undervoltage, integrated surge protection, grounding fault including DC leakage protection, door opening protection	
Overvoltage Category		Type II	
Emergency Button		Yes	
Cellular Communication		GSM, 4G, LTE (Optional)	
Connectivity		Ethernet (RJ45), Wi-Fi, 4G, 3G	
Communication Protocols		OCPP 1.6J	
User Authentication		RFID, QR Code	
RFID Reader		ISO/IEC 14443 A/B Mifare RFID reader	
User Interface		7" LCD touchscreen	
DIMENSIONS & WEIGHT			
W x D x H (mm)		218 x 660 x 1250	
Weight (kg)		80	100
ENVIRONMENTAL			
Operating Temperature		-35 °C - 55 °C	
Storage Temperature		-40 °C - 70 °C	
Humidity		< 95% (non-condensing)	
Altitude		Up to 2000m	
STANDARDS			
Codes & Standards		IEC61851-1 ed 3, IEC61851-23 ed 1, IEC61851-24 ed 1, IEC62196-2, IEC62196-2, IEC62196-3	
Communication to the EV		DIN70121, ISO/IEC 15118 ed 1, CHAdeMO 1.2	
Electro-Magnetic Compatibility		Class A (optional Class B) according to EN 61000-6-3:2007	