

# tuncmatik

## PRO DC Charger

### 60-180 kW

#### PRO DC Charger

Tunçmatik PRO DC Charger fast charger, which can easily charge and pay for their vehicle, and have the performance of fast charging one or two vehicles at the same time with the power capacity up to the desired power, are among the preferences of busy locations with their power sharing features. Tunçmatik PRO DC Chargers which has full-modularized design including control system, power source system, distributed power system and power factor system enables EV drivers to get back on the road as quickly as possible. Perfect for shortstop locations, highway rest stops, and fuel retail, PRO DC Charger provide a seamless user experience and always consume power efficiently due to its ECO energy saving mode; when vehicle charging is complete, the charging station will go into sleep mode (consumption <5W) even if the nozzle is connected but the charging station will continue to charge if the nozzle is connected to another vehicle. By it's built-in low noise fans and replaceable filter for easy maintenance it's designed for easy and quiet operation in residential areas.




#### 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 CHDeMO sockets are available
- User Authentication via RFID and OR Code
- GSM, 3G, 4G, LTE Cellular and Ethernet(RJ45) Connectivity
- OCPP 1.6J communication protocols
- Integrated surge protection
- Grounding fault including DC leakage protection
- Door opening protection

#### Usage Areas

- 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>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 EKŞAN</b>  <small>LCD TOUCHSCREEN</small>

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#### Product Overview



Supports all kinds of charging sockets (Customized cable length)



CCS2  
(standard)

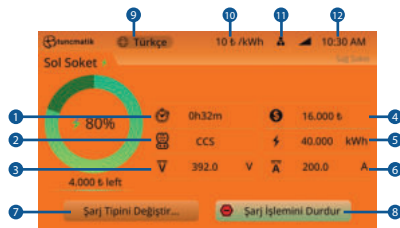


CHAdeMO  
(optional)



CCS1  
(optional)

7" LCD touch display



1. Charging Time
2. Socket Type
3. Charging Voltage
4. Charging Fee
5. Charging Capacity
6. Charging Current
7. Change Charge Type
8. Stop Button
9. Language Selection
10. Tariff
11. Network Status
12. Time

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 station,
- Internal malfunction, unable to stop charging, fast DC charging station 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 station 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.



In-built RFID reader and status indicator

1. Power LED for charging plug A (charging plug on the left side);
  - When hanging on charging plug A, this power LED (green) will light on.
  - When charging plug A is in charging, this power LED (green) will flash.
2. Power LED for this charging station;
  - When this charger is powered on, this power LED (yellow) will light on.
  - When this charger is off, this power LED will fade out.
3. Fault LED;
  - When any fault or error occurs on the charger, this fault LED (red) will light on.
  - At this time, this charger will stop operation for safety consideration.
4. Power LED for charging plug B (charging plug on the right side);
  - When hanging on charging plug B, this power LED (green) will light on.
  - When charging plug B is in charging, this power LED (green) will flash.
5. NFC sensing area (No indication for this icon. To start or stop charging, please put NFC card nearby this area)

System power module

Control module

Contactor module

Charge power modules

Power distribution unit



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MODEL		60kW		90kW		120kW		180kW	
Charging Type		Fast DC Charging							
INPUT									
Phase		3P + N + PE							
AC Input Power		93 A, 64 kVA @ 400V 50 Hz		139 A, 96 kVA @ 400V 50 Hz		185 A, 128 kVA @ 400V 50Hz		278 A, 192 kVA @ 400V 50Hz	
Voltage Range		400 VAC or 380 VAC ± 10%							
Frequency		50 Hz or 60 Hz							
THDi		≤ 5%							
Line		TN-S, TN-C, TN-C-S, TT (required external RCD)							
OUTPUT									
Power Factor (Full Load)		≥ 0.99							
DC Output Voltage		200-1000 Vdc							
Efficiency		94% (Up to)						95% (peak)	
Maximum Current	CCS Cables	150 A		150 A, Optional: 200A		200 A		200 A, Optional: 300 A	
	CHAdeMO Cables	125 A		125 A		125 A, Optional: 200 A		125 A, Optional: 200 A	
Standby Power		< 35W							
Pre-Charge Current		< 1 A							
Inrush Current		< 100 A							
Leakage Current		0.8 mA							
SOCKET & CABLE									
Socket Option		C: CCS2 cable with socket, A: CCS1 cable with socket, J:CHAdeMO cable with socket							
Number of EV Served		Up to 2 (CC, AA, JC, JJ models), Up to 1 (C, A models)							
Cable Length		5 m default, optional 6.0 m/ 7.0 m							
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							
Connectivity		Internet access vi a 4G/3G/Ethernet (RJ45)							
Communication Protocols		OCPP 1.6J							
User Authentication		RFID, QR code							
RFID Reader		ISO/IEC 14443 A/B Mifare RFID reader							
User Interface		7" LCD high-contrast touchscreen							
DIMENSIONS & WEIGHT									
W x D x H (mm)		740 x 750 x 1830							
Weight (kg)		295		335		355		395	
ENVIRONMENTAL									
Operating Temperature		-35 °C to 55 °C							
Humidity		< 95%, non-condensing							
Storage Temperature		-40 °C to 70 °C							
Altitude		Up to 2000m							
STANDARDS									
Charging System		IEC 61851-1 ed 3, IEC 61851-21-2 ed 1, IEC 61851-23 ed 1, IEC 61851-24 ed 1, IEC 62196-2 IEC 62196-3, IEC 61000							
Communication to the EV		DIN 70121, ISO/IEC 15118 ed 1, CHAdeMO 1.2							
Electro-Magnetic Compatibility		Class A (optional Class B) according to EN 61000-6-3:2007							