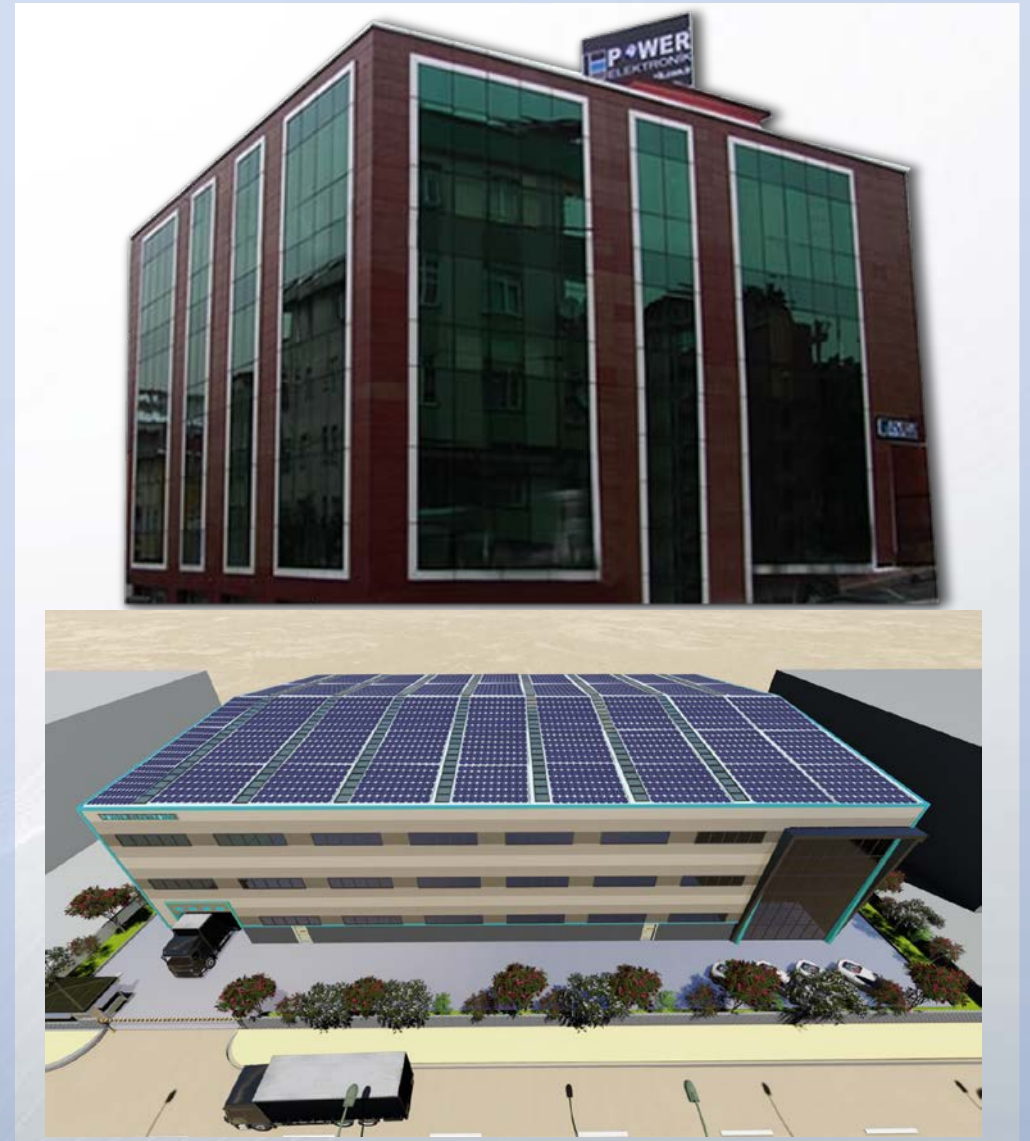


EV CHARGERS & SOLAR ENERGY STORAGE SOLUTIONS



Main Topics of the Webinar

- Company presentation
- EV Chargers Solutions
- Solar Energy Storage Solutions



Power Group Companies



POWER ELEKTRONIK



POWER SOLAR



POWER ENGINEERING



ELEKTRON

ABOUT US

Power Elektronik Industry and Trade Inc. was established in 1999 and became a powerful brand afterward in Turkey.

Power Solar is committed to the highest level of quality. That's why we select the best components and industry-leading performance models to ensure your system will produce optimally. Our highly-trained installation crews take pride in delivering beautiful well-made solar arrays. From the panels to the bolts on the roof, we'll deliberately consider every piece of your installation so you can rest easy throughout its many years of service.

GOAL

To be one of the leading companies.

MISSION

To manage reliable, adequate, quality production and customer relations correctly.

QUALITY POLICY

- To be a well-known company all over the world.
- To gain the trust of customers by improving quality management
- To maintain good relations with customers by supporting them with their problems.
- To follow the innovations and invest in the necessary issues.
- Increasing production efficiency.

Achievements

We are moving forward to reach our goal by completing our missions very confidently.

22

Year

10000+

Customer

500+

Project

45

Dealers

70

Employment

13

Quality
Certificates

P O W E R E L E K T R O N I K

P O W E R S O L A R

- 15 Engineers
- 26 Technical Personnel
- 14 Project Team
- 15 Technicians

01

HUMAN
RESOURCES

02

R & D Central

Thanks to our qualified R&D department,
we make completely new designs.

03

Sertifications

- ISO 9001, ISO 45001, ISO 14001, ISO 27001
- TSE and EN Documents
- Service Qualifications Documents
- Product final quality and Routine tests
- Factory and field acceptance tests

04

AFTER SALES
TECHNICAL
SUPPORT

Power Elektronik continues its activities by
observing customer satisfaction.

- 24/7 Service support
- Competent Technical Services
- maintenance service
- satisfaction measurement

Ar-Ge
Merkezi



TEKNOLOJİYE YATIRIM GELECEĞE YATIRIM

Tasarım
Merkezi



K T R O N I S O L A R



01

Human
Resours

02

R & D Central

03

Sertifications

04

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P O W E R E L E K T R O N I K

P O W E R S O L A R

- 15 Engineers
- 26 Technical Personnel
- 14 Project Team
- 15 Technicians



- ISO 9001, ISO 45001, ISO 14001, ISO 27001
- TSE and EN Documents
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- Product final quality and Routine tests
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Thanks to our qualified R&D department, we make completely new designs.

Power Elektronik continues its activities by observing customer satisfaction.

- ▶ 24/7 Service support
- ▶ Competent Technical Services
- ▶ Maintenance service
- ▶ Satisfaction measurement

POWER SOLUTIONS



UPS



RACK UPS



RECTIFIER



BATTERY



VOLTAGE REGULATOR



DYNAMIC UPS



EV CHARGE STATIONS



SOLAR ENERGY SYSTEMS

EV CHARGING SOLUTIONS

- Home & Public
- Charging Management System
- DC Fast Charge
- Renewable Energy Systems
- Technical Services



AC

N. America



J1772 (Type 1)



Japan



J1772 (Type 1)



EU
and the rest of markets



(Type 2)



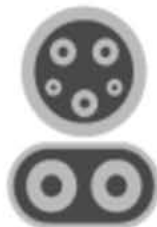
China



GB/T



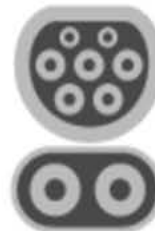
DC



CCS1



CHAdeMO



CCS2



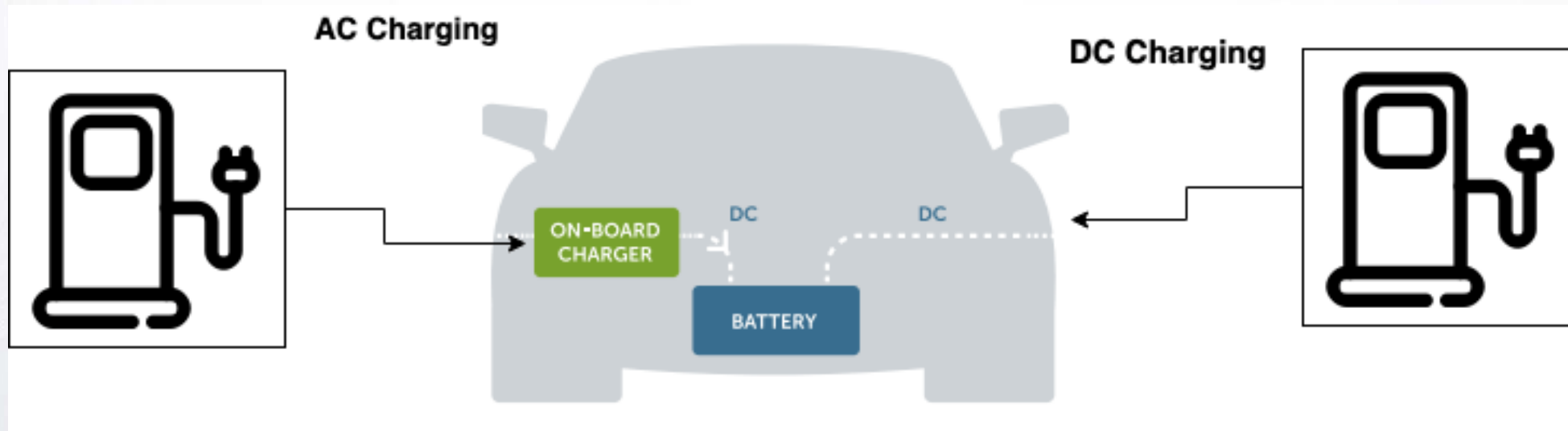
CCS 2



GB/T



AC CHARGERS VS DC CHARGERS



AC

- USES EV'S ON-BOARD-CHARGER
- CHARGEING TIME DEPENDS ON OBC POWER
- REQUIRES LOW POWER SO THAT YOU CAN USE AT HOME

DC

- USES RECTIFIERS IN DC STATION
- CHARGING TIME DEPENDS ON CHARGER STATION POWER
- REQUIRES HIGH POWER SO THAT IT NEEDS HIGH POWER GRID TRANSFORMATORS

RENAULT ZOE 50kWh MODEL ESTIMATED CHARGING TIMES (%0 - % 80)

Set the settings and target charge level to see how much charge time is required for each type of charge point.

YOUR VEHICLE

engine

R110R135

battery

EV50

YOUR CHARGE LEVEL

Beginning0%

Alm80%

<>

<>

YOUR CHARGING TIME

fast charging station

50kW DC
(125A)

1h05

public charging station

22kW AC
(3x32A)

11kW AC
(3x16A)

7.4kW AC
(32A)

2h15

4h30

7h43

Driving range after charging

317 km

WLTP (Worldwide Harmonized Light Vehicles Test Procedure) certified mixed cycle fuel consumption, 395 km for the R110 engine with ZE50 battery and 386 km for the R135 engine.

RENAULT ZOE 50kWh MODEL ESTIMATED CHARGING TIMES (%0 - %100)

Set the settings and target charge level to see how much charge time is required for each type of charge point.

YOUR VEHICLE

engine

R110

R135

battery

EV50

YOUR CHARGE LEVEL

Beginning

0%

100%

one hundred%

Alm

<>

<>

YOUR CHARGING TIME

fast charging station

50kW DC
(125A)

1h29

public charging station

22kW AC
(3x32A)

11kW AC
(3x16A)

7.4kW AC
(32A)

2h54

5h48

9h33

Driving range after charging

395 km

WLTP (Worldwide Harmonized Light Vehicles Test Procedure) certified mixed cycle fuel consumption, 395 km for the R110 engine with ZE50 battery and 386 km for the R135 engine.

SOLUTION OPTIONS

HAVE TIME TO CHARGE

2.3kw - 22 KW AC CHARGER



DON'T HAVE TIME TO CHARGE

20-300 KW DC CHARGER



Model: Home

N-power



P-power



H-power



TECHNICAL SPECS

- 2.3kW – 22kW Optional Power
- TYPE 2 Connector
- 10A,16A or 32A Adjustable Output Current
- Residual Current Protection
- Over Current Protection
- Home use with competitive price
- LED Indicators
- Wall-mount or floor-stand installation

Model: Smart

N-power



P-power



H-power



TECHNICAL SPECS

- 2.3kW – 22kW Optional Power
- TYPE 2 Connector
- 10A,16A or 32A Adjustable Output Current
- Residual Current Protection
- Over Current Protection
- Home use with competitive price
- LED Indicators
- Start/Stop charging by RFID card
- Wall-mount or floor-stand installation

Model: Public

N-power



P-power



H-power



TECHNICAL SPECS

- 2.3kW – 22kW Optional Power
- TYPE 2 Connector
- 10A,16A or 32A Adjustable Output Current
- Residual Current Protection
- Over Current Protection
- Public use with competitive price with OCPP1.6J
- LED Indicators
- Start/Stop charging by RFID card or optional QR Code
- Wall-mount or floor-stand installation

DC EV CHARGER



TECHNICAL SPECS

- 20kW – 200kW Optional Power
- CCS2 and CHAdeMO Connector
- Modular Adjustable Power Range
- Residual Current Protection
- Over Current Protection
- Public use with competitive price with OCPP1.6J
- LED Indicators
- Start/Stop charging by RFID card or optional QR Code
- Simultaneously or Unsimultaneously Output Control (Optional)

CHARGE MANAGEMENT SYSTEM

Main Page

www.elektron.zone

[Home](#)[About](#)[Documents](#)[Prices](#)[How It Works](#)[Login](#)[Sign Up](#)[TR](#) | [EN](#)

Integrate with Elektron Charging Stations!

As Elektron, we offer solutions suitable for needs and technology with electric vehicle charging stations. If you own an electric vehicle or are considering buying an electric vehicle, you can have a charging station installed at your home or workplace and easily charge your vehicle in our general charging station networks with an elektron membership.

CHARGE MANAGEMENT SYSTEM

Register Page



elektron

Name Surname

Enter your name and surname

Phone

+90

E-mail

Enter E-mail

Card number

Enter Card Number

☐

Clarification text I have read, I accept.

Register

Give Up

CHARGE MANAGEMENT SYSTEM

Log in Page



elektron

Phone

+90

☐








Clarification text I have read, I accept.


Verify Code

Give Up

CHARGE MANAGEMENT SYSTEM

User Main Page





Hello Eyup Odabaşoğlu,
welcome 🤝

Your balance **247.12 ₺**

Find your next EV charging station with Elektron. Download the best EV charging station app now.

Our application is designed to help all electric car drivers in Turkey.

[Get the app](#) x

My Daily Consumption

Energy (Watts)
6,912 kWh

Charging Time
16 min

CHARGE MANAGEMENT SYSTEM

User Stations Near Me Page

[Home page](#)

[Stations Near Me](#)

[Start Charge](#)

[Load Balance](#)

[Past](#)

[Log out](#)

Harita

Uydu


Stations Near Me

★ Favorites

Search

CHARGE MANAGEMENT SYSTEM

User Start Charge Page



Home page

Stations Near Me

Start Charge

Load Balance

Past

Log out



Hello Eyup Odabaşoğlu,
welcome 🤝

charge

Start charging with QR

Your balance

247.12 ₺

Balance Payment & Payment History

last 30 days ▼

Oct

26

26 Oct 2021

50.00 ₪ SHARE

13:35

Oct

26

26 Oct 2021

50.00 ₪ SHARE

14:06

Oct

26

26 Oct 2021

50.00 ₪ SHARE

14:06

Amount : 50₪

Card number

name on the card

AA****

End Date

MM / YYYY

CVC Code

CVC

☐ I have read and approved the [Distance Sales Agreement, Cancellation and Return Conditions, Confidentiality and Security Agreement](#).

PAY



CHARGE MANAGEMENT SYSTEM

User Charging Logs Page

e lektron

Home page

Stations Near Me

Start Charge

Load Balance

Past

Log out

Hello Eyup Odabaşoğlu,
welcome 🤝

Your balance **247.12 ₺**

History

last 30 days ▼

March 2021 ▼

Search

station name	Payment method	Transaction date	Duration (minutes)	Energy (Watts)	Fee
Hür Çelik	RFID Card	17 November 2021	16 min	6,912 kWh	46.08

CHARGE MANAGEMENT SYSTEM

Admin Charging Activities

e l e k t r o n

Veli Kara 

 Charging Activities

 Charging Stations

 tariffs

 Users

 Payments

 Charge Appointments

Charging Activities

Simulator 1



Brand: Power

Model: EVCC 1

Company: Avm 1

Status: Available

Charging time: 00:00 minutes

Start Charge

End Charge

Reset

Device Details

Power Elektronik



Brand: Power Elektronik

Model: EVCC 1139452

Company: Power Elektronik

Status: Available

Charging time: 00:00 minutes

Start Charge

End Charge

Reset

Device Details

newCustomerName



Brand: Power Elektronik

Model: EVCC 1139452

Company:

Status: Available

Charging time: 00:00 minutes

Start Charge

End Charge

Reset

Device Details

CHARGE MANAGEMENT SYSTEM

Admin Charging Stations

e l e k t r o n

Charging Activities

Charging Stations

tariffs

Users

Payments

Charge Appointments

Veli Kara

Charging Stations

Delete Selected

+ Add New

Search in table...

<input type="checkbox"/>	Device Name	Device Brand	Device Model	Company	Active	Charge	Transacti...
<input type="checkbox"/>	newCustomerName	Power Electronics	EVCC 1139452		<div></div>	<div></div>	<div></div> <div></div>
<input type="checkbox"/>	Power Elektronik	Power Electronics	EVCC 1139452	Power Electronics	<div></div>	<div></div>	<div></div> <div></div>
<input type="checkbox"/>	Simulator 1	power	EVCC 1	mall 1	<div></div>	<div></div>	<div></div> <div></div>

CHARGE MANAGEMENT SYSTEM

Admin Station Tariff Operations

e

lektron

Veli Kara

Charging Activities

Charging Stations

tariffs

Users

Payments

Charge Appointments

tariffs

Search in table...

	Medicine	Limit	Unit	Price	Company	Transacti...
<input type="checkbox"/>	HUNGRY	50	kWa	0.36	mall 1	edit delete
<input type="checkbox"/>	DC	11th	kW	0.50	mall 1	edit delete
<input type="checkbox"/>	DC	24	kWa	1.24	mall 1	edit delete
<input type="checkbox"/>	HUNGRY	22	kW	0.83	mall 1	edit delete
<input type="checkbox"/>	DC	50	kW	1.08	mall 2	edit delete
<input type="checkbox"/>	DC	24	kW	0.58	Power Electronics	edit delete
<input type="checkbox"/>	HUNGRY	22	kWa	0.38	Power Electronics	edit delete
<input type="checkbox"/>	HUNGRY	11th	kWa	0.28	mall 1	edit delete
<input type="checkbox"/>	HUNGRY	7.8	kWa	0.18	Arneca	edit delete

Delete Selected

+ Add New

POWER

ELEKTRONIK

Endüstriyel Güç Sistemleri

Industrial Power Solutions

CHARGE MANAGEMENT SYSTEM

Admin Users Settings

e

lektron

Veli Kara

Charging Activities

Charging Stations

tariffs

Users

Payments

Charge Appointments

Users

Search in table...

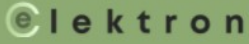
<input type="checkbox"/>	User name	Card Number	Telephone	Email	Company	Transacti...
<input type="checkbox"/>	Azhar Jameel Siddiqui	482114	+31377420	aj.siddiqui@hotmail.com	Arneca	edit delete
<input type="checkbox"/>	Azhar Jameel Siddiqui	482114	+84331377420	aj.siddiqui@hotmail.com	Arneca	edit delete
<input type="checkbox"/>	Cemal TANRIGUL		+905324073332	info@harcehik.com.tr	Arneca	edit delete
<input type="checkbox"/>	Nezihi Bayik		+905325143373	bayik@hotmail.com	Arneca	edit delete
<input type="checkbox"/>	attempt	21232132132131231231232...	+905370208320	testgaranti01@gmail.com	Arneca	edit delete
<input type="checkbox"/>	Mustafa		+9011111111111111		Arneca	edit delete
<input type="checkbox"/>	Aydin Polat		+905416401301	a@e.com	Arneca	edit delete
<input type="checkbox"/>	Elcin		+904518080444	elcino300@gmail.com	Arneca	edit delete

Delete Selected

Add New

CHARGE MANAGEMENT SYSTEM

Admin Payment Logs



Charging Activities

Charging Stations

tariffs

Users

Payments

Charge Appointments

Veli Kara

Payments

Delete Selected

Search in table...

<input type="checkbox"/>	Card Number	User name	Amount	Company	Date	Transacti...
<input type="checkbox"/>	erty456	Mustafa	50.00	Arneca	2021-11-29 08:16:12	edit delete
<input type="checkbox"/>	erty456	Mustafa	50.00	Arneca	2021-11-29 08:13:08	edit delete
<input type="checkbox"/>	586589	spring	50.00	Arneca	2021-11-26 12:28:30	edit delete
<input type="checkbox"/>	erty456	Mustafa	50.00	Arneca	2021-11-24 09:58:34	edit delete
<input type="checkbox"/>	erty456	Mustafa	50.00	Arneca	2021-11-24 09:58:31	edit delete
<input type="checkbox"/>	erty456	Mustafa	50.00	Arneca	2021-11-24 09:58:28	edit delete
<input type="checkbox"/>	ARNECA	Muhsin Deniz	50.00	Arneca	2021-11-23 12:20:01	edit delete
<input type="checkbox"/>	212321321321312312312321331...	attempt	50.00	Arneca	2021-11-23 10:47:56	edit delete
<input type="checkbox"/>	0	Mustafa	50.00	Arneca	2021-11-23 07:55:04	edit delete
<input type="checkbox"/>	0	Mustafa	50.00	Arneca	2021-11-23 07:52:58	edit delete

STRONG SIDES OF OUR PRODUCTS

1

WIDE RANGE TECHNICAL
SUPPORT ADVANTAGE

3

EAST INSTALLATION
& INTEGRATION

2

FLEXIBLE & MODULAR

STRONG SIDES OF OUR PRODUCTS

4

MANUFACTURE & SAFETY
& TESTING

6

BEST SOLUTION
SUIT YOU

5

SMART CHARGE
MANAGEMENT

THANK YOU



EYÜP CELAL ODABAŞIOĞLU



ELECTRICAL & ELECTRONICS ENGINEERING



eyup.odabasioglu@powerelektronik.com.tr



+90 542 348 7513