



Earthgrade Energy - North American Version
<http://www.earthgradeenergy.com>



earthgrade™
ENERGY

**POWERING TOWARDS A
SUSTAINABLE TOMORROW**



THE RISE OF ELECTRIC VEHICLES IS HAPPENING AT AN UNPRECEDENTED PACE

The latest figures show that there are over

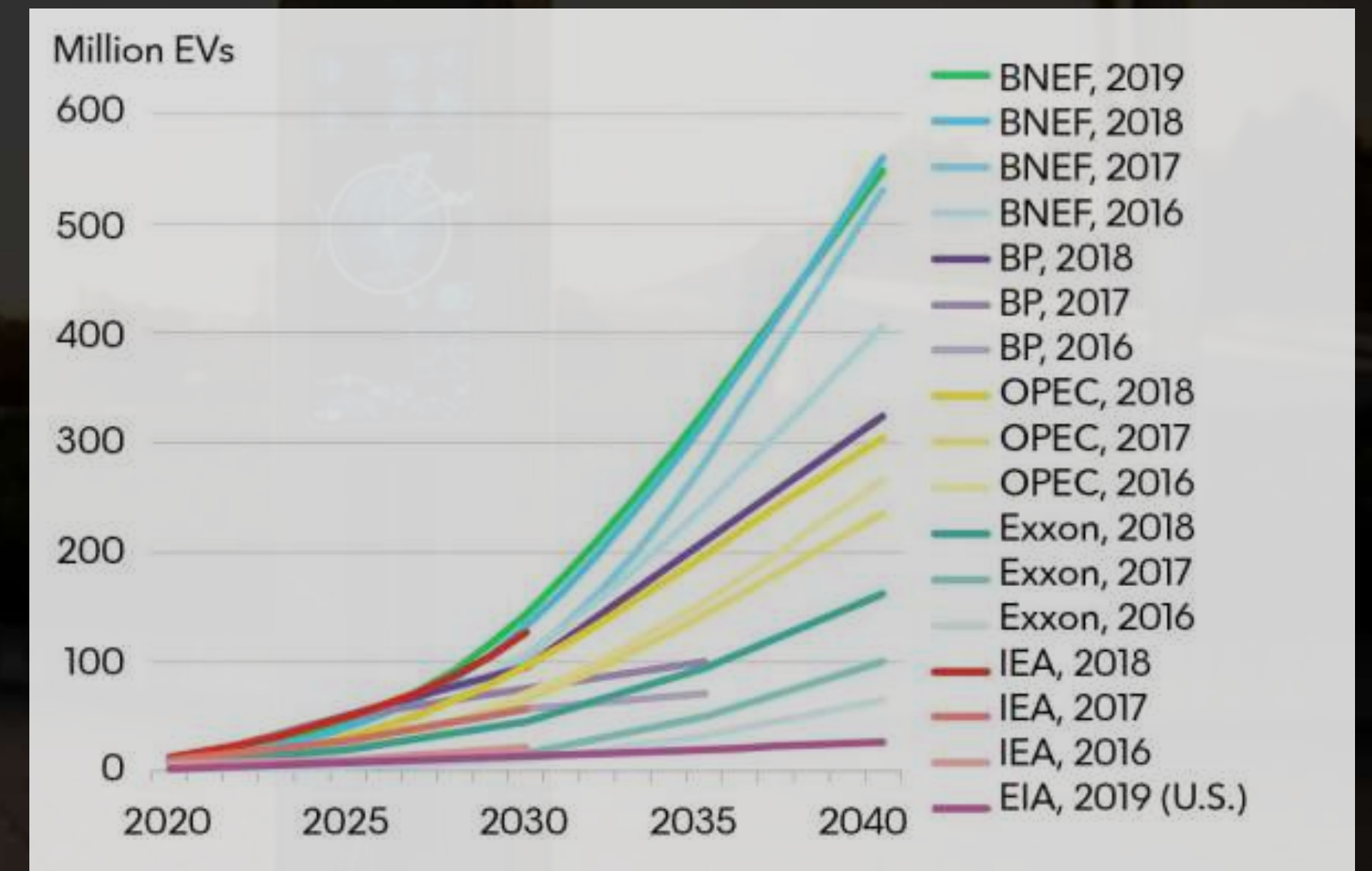
5.6M

electric cars worldwide in 2022

That's already a

64% INCREASE

from the 2018 data



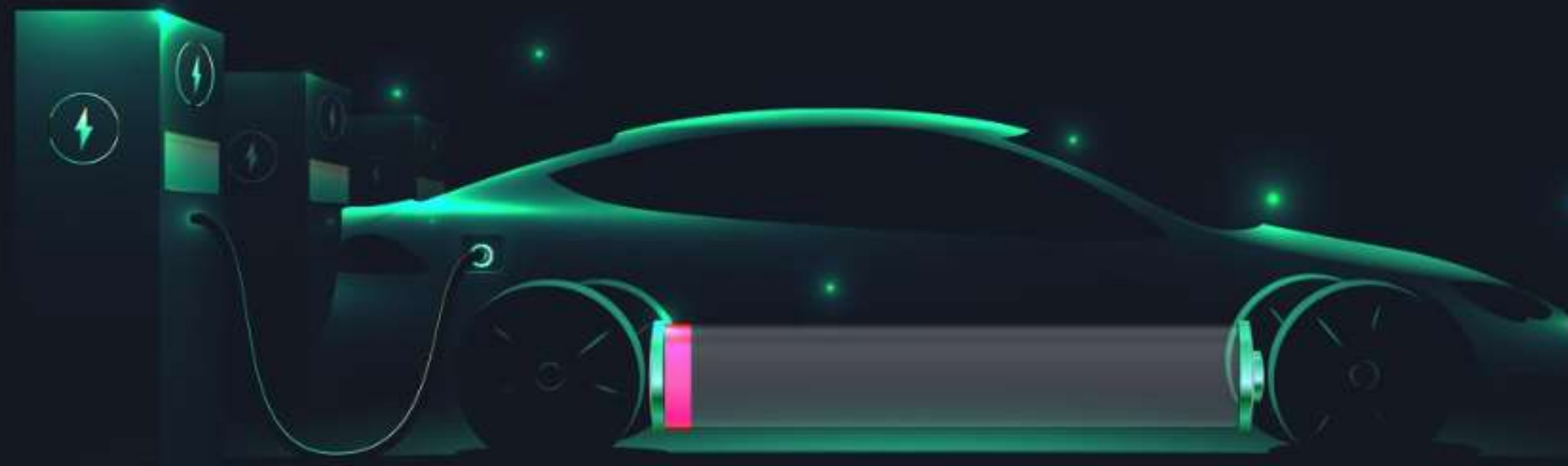
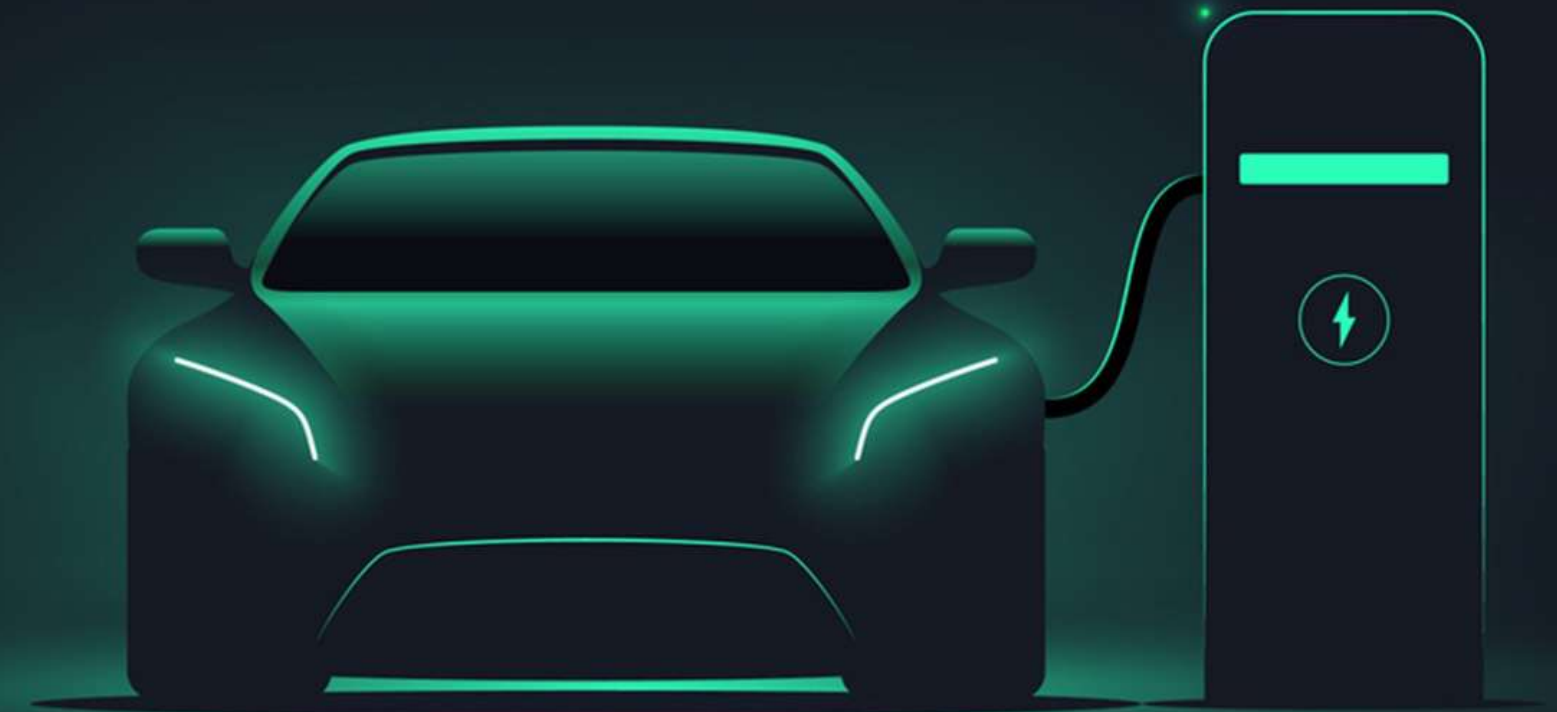
the global electric car stock is projected to rise up to

2000M

by 2030

THE CHALLENGE

At present, **more than 50%** of consumers are already **considering EVs** as their **next vehicle purchase**



However, **33%** indicate that a **lack of charging infrastructure and accessibility to convenient charging** remains their **greatest concern** when considering the switch to full electric

introducing



earthgrade™
ENERGY

A TECHNOLOGY FUTURE-PROOF PROVIDER

that aims to removes the barrier to [accessibility](#) and [scalability](#)
for consumers and businesses to meet their sustainability goals while
enhancing their customer experience

WE ARE GEARED FOR THE FUTURE OF ENERGY

Earthgrade Energy is committed to a sustainable future through the use of renewable energy. We recognize that individuals and businesses have the power to create positive change, and we aim to empower them with the technology and resources to do so.

We are not just focused on the present, but also on **the future of energy**. Our team is dedicated to innovation and staying ahead of the curve, so we can provide cutting-edge solutions for our customers.

At Earthgrade Energy, we believe in making a positive impact on the world while also providing reliable, affordable, and high-performing products for consumers and businesses alike.



DISCOVER OUR RANGE OF SUSTAINABLE SOLUTIONS

Introducing our cutting-edge lineup of EV chargers, where innovation meets the limitless potential of renewable energy. Embrace the transformative power of electric mobility as we redefine the way we navigate the world.



PowerPlus Premium EV Charger



PowerBoost Portable EV Charger



PowerZone EV Charging Station

EARTHGRADE ENERGY POWERPLUS PREMIUM



INNOVATIVE DESIGN

- Ergonomic enclosure and user-friendly body design
- Trendy streamlined design



SECURE AND SAFE

- 30mA Type A + 6 mA DC residual current protection
- Anti-welding protection
- Optional PEN-Fault protection



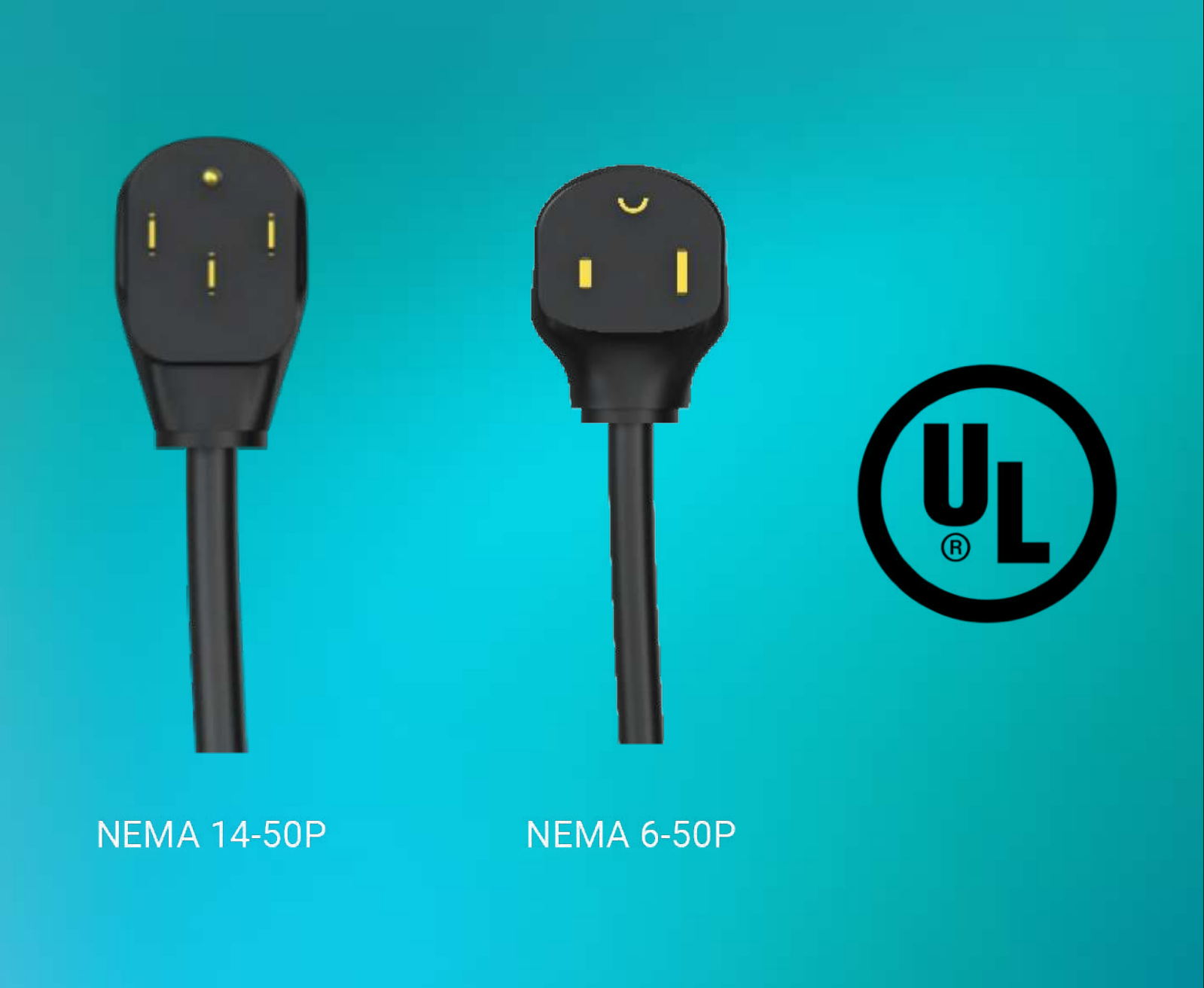


WIDE COMPATIBILITY

- Type 1 connector for the American market
- Interoperable with all major automobiles in the North American Market



FLEXIBLE OPTIONS



- 14-50P/6-50P NEMA input plugs
- Wall-mount or floor-stand installation
- Option for a WiFi version

POWERING PRODUCTIVITY AND SUSTAINABLE MOBILITY

The PowerPlus Premium EV Charger offers unparalleled convenience and ease of use, making it an excellent choice for residential use or even in workplaces.



Three color options:

-  Pearl White
-  Space Black
-  Emerald Green



Charger units and stands may be sold separately



PRODUCT SPECIFICATIONS

Datasheet	Model	Earthgrade Energy PowerPlus Premium
Input	Power Supply	Single Phase
	Rated Voltage	240V AC
	Rated Current	40A
	Frequency	60 Hz
	Maximum Current	40A
	Plug	NEMA 14-50P / NEMA 6-50P
Output	Output Power	9.6kW
	Charge Outlet	Type 1
	Cable Length	5m/7m
User Interface	Housing Material	Plastic PC940
	LED Indicator	Green/Yellow/Red
	Housing Material	Plastic PC940
Communication	WiFi	Optional
Security and Safety	Leakage Current Protection	CCID 20
	Enclosure Rating	NEMA 4
	Electrical Protection	Over current protection, Residual current protection, Surge protection, Over/Under voltage protection, Over/Under frequency protection, Over temperature protection
	Certification Standard	UL 2594, UL 2231-1 & -2
	Warranty	2 years
Environment	Installation	Wall-mount/Pole-mount (Optional)
	Work Temperature	-30°C~+50°C
	Work Humidity	5%~95%
	Work Altitude	<2000m
Size	Product Dimension	344*201*135mm(H*W*D)

Max Output Power



Charges as fast as



Tested and certified by UL to ensure safety, durability, and high quality standards



Production Lead Time:



* from empty to full for small EVs with 40kWh batteries

CHARGING VIA APP INSTRUCTIONS

- Download the App and sign up an account.
- Plug the charging cable into EV.
- Scan QR code to start the charging.
- Stop charging in the app.

Excellent solutions for a variety of EV charging needs within our comprehensive line-up

POWERBOOST PORTABLE EV CHARGER

Earthgrade Energy's **PowerBoost EV Charger** is designed to make your EV charging reliable and efficient.



Designed for **convenience** and **versatility**, this portable charger is the ideal companion for electric vehicle charging wherever you are and ensures you're always ready to go.

Max Output Power



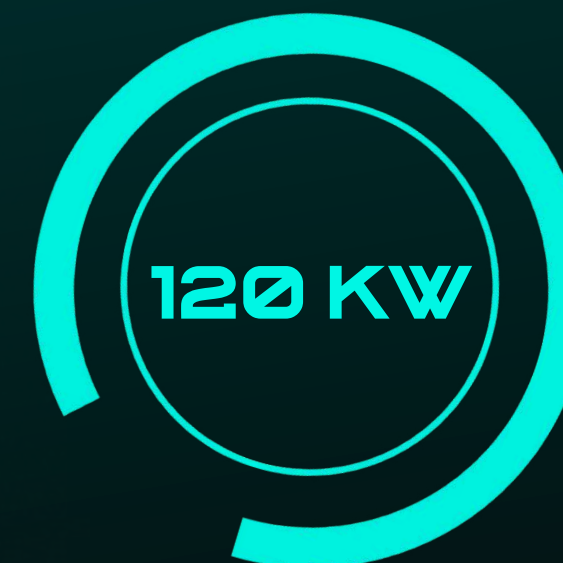
POWERZONE EV CHARGING STATION

Earthgrade Energy's **PowerZone EV Charging Station** is excellent for high-power charging.

Built for **fast-charging** and **commercial** needs, our charging station can support remote monitoring and maintenance. This is perfect for use on retail locations, petrol stations or on highways.



Max Output Power



*Strictly for commercial use only.
Requires product testing and a professional team
on the ground for service and assistance.*

PRODUCT SPECIFICATIONS

POWERBOOST PORTABLE EV CHARGER

Datasheet	Model	Earthgrade Energy PowerBoost
Input	Power Supply	1P+N+PE
	Rated Voltage	230V AC
	Rated Current	13A
	Frequency	50/60 Hz
Output	Output Voltage	230V AC
	Maximum Current	13A
	Rated Power	3.5kW
User Interface	Power Cord Plug	Schuko
	Charge Connector	Type 2 cable
	Cable Length	4m
	Enclosure	Plastic PC940
	LED Indicator	Green/Yellow/Red
	LCD Display	No
	Start Mode	Plug & Charge
Safety	Ingress Protection	IP65
	Impact Protection	IK10
	Electrical Protection	Over current protection, Residual current protection, Surge protection, Over/Under voltage protection, Over/Under frequency protection, Over temperature protection
	Certification Standard	EN IEC 61851-1:2019, IEC 62752
	Warranty	2 years
Environment	Work Temperature	-30°C~+50°C
	Work Humidity	5%~95%
	Work Altitude	<2000m
Size	Product Dimension	195*74*47mm



POWERZONE EV CHARGING STATION

Earthgrade Energy PowerZone EV Charging Station	
PARAMETERS	REQUIREMENTS
General Requirements	
Charger Capacity	90KW/100KW/120KW
Mounting	Ground-Mounted
Input Requirements	
AC Supply System	Three-Phase 5 Wire AC system
Nominal Input Voltage	AC380V+15%
Input Frequency	45-65Hz
Environment Requirements	
Ambient Temperature Range	-25 to 55°C
Ambient Humidity	5 to 95%
Storage Temperature	-40 to 70°C
Mechanical Requirements	
IP Ratings	IP 54
Cooling	Air-cooled
Output Requirements	
Number of Outputs	2
Type of Each Output	DC200-750V
Single Output Max. Current	200 Amp
Power Factor	>0.99(50% load above)
User Interface & Display Requirements	
Display & Touch-Screen Size	7 Inches Touch Screen with Shell
User Authentication	Mobile Application or User Interface / QR Code/Rfid Card /Password Login
Metering Information	Consumption Units
Communication Requirements	
Communication between EVSE and Central server	OCPP 1.6J Protocol (Optional)
Interface between Charger and CMS	Ethernet/3G/4G/WiFi (Optional)
Protection & Safety Requirements	
Executive Standard	IEC 62196 2017. EC 61851 2017, SAE J1772,CHAdeMO etc.
Safety Parameters	Over Current Under Voltage, Residual Current, Surge Protection, Leakage Protection, Short Circuit, Over Temperature etc.



THANK YOU

Learn more about our range of sustainable charging solutions.
Reach out to us for more information about our product offerings.

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