



PORSCHE



Porsche E-Performance



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S VM424E

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E-Performance

The drive system of tomorrow. It's on everyone's tongue. In everyone's minds. But, above all, it's in our hearts. That's why we're doing the very best thing we can do: exploring our own direction. And giving the world of electric mobility a boost with Porsche E-Performance.

Efficiency, connectivity, adrenaline. Porsche E-Performance is each one of these. And more: more power, of course. This forward-looking drive concept makes our six E-Hybrid models even better performers – and the Panamera Turbo S E-Hybrid one of the most powerful Panamera models of all time. This is how we set a new standard for series production. And for the future of mobility.

Then again, that's hardly surprising. All the successes and lessons learned in motorsport are incorporated into our development process – like those acquired with the imperious 919 Hybrid, our most technologically mature racing machine and two-time overall winner at Le Mans.

The hybrid drive is formed by the optimum combination of combustion engine and electric machine. As soon as it presses you hard back against the driver's seat, you will feel what Porsche E-Performance means. For your everyday life. For your driving feel. For the future of the sports car.

Porsche E-Performance.



Every victory is a victory for series production.

We're in motorsport not because we have to be, but because we simply can't imagine it any other way. It's where we continually reappraise the E-Performance concept. And scrutinize every idea and every detail on the test bench. It's the only way to turn promising ideas into reality. The only way to bring power to the road. And the only way to forge the path for the future of all sports cars in series production.

That's exactly what we did with the 919 Hybrid and its innovative hybrid concept. Its performance in 2015 and 2016 not only brought the FIA World Endurance Manufacturers' Championship title home to Zuffenhausen for the 13th and 14th time, it also delivered a 17th and 18th overall victory in Le Mans. This principle is transferred to the road by the 918 Spyder. A super sports car

that brings with it all the qualities of a thoroughbred race car: performance, efficiency and lightweight construction. So it's no wonder that, with an impressive lap time of 6:57 minutes, it holds the current record for a road-legal sports car on the Northern Loop of the Nürburgring.

It's even less surprising that we refuse to rest on our laurels. Instead, we continue to work on the future of our sports cars. And we transfer progressive E-Performance technologies into our series production sports cars. Such as a hybrid concept capable of superlative results. Or with the mode switch – for a driving feel similar to that experienced in the cockpit of a race car. Today, we are proud that, with the Porsche E-Hybrid models, we are generating a new reality on the road.



Sports cars are meant to promise big things. Taking responsibility, for example.

With Porsche E-Performance, we provide our answers. Not some time in the future, but right here and now. Fuel consumption and CO₂ emissions have to be reduced globally. We believe that, as a sports car manufacturer, we should start where we can actually change something: in the garage, in the everyday life of our drivers – with an intelligent total concept.

The focal point is not the technology, but the driver. No wonder, then, that – for us – Porsche E-Performance is more than just a drive concept alone. It encompasses car, connectivity and energy.

Step 1: the car. It manages to reconcile that which, on the surface at least, would appear to be irreconcilable: maximum power output and low fuel consumption. The platform is a tight-knit total concept,

from the hybrid drive and on-demand driving modes to the ergonomic control of vehicle functions.

Step 2: connectivity. With the hybrid-specific services of Porsche Connect, the connection to your Porsche E-Hybrid model becomes even more intimate. Charging facilities can be located quickly and easily. That's not all. It is also possible, for example, to control and monitor various vehicle functions via the dedicated app, e.g. by viewing the battery's current state of charge.

Step 3: energy. Porsche E-Hybrid models are designed as plug-in hybrids. Indeed, we envisage an increasing shift from conventional refueling to recharging from an electrical source. Not just anywhere, but primarily in the comfort of home. So, for us, it goes without saying that we also provide you with the necessary charging equipment.

Porsche E-Performance.



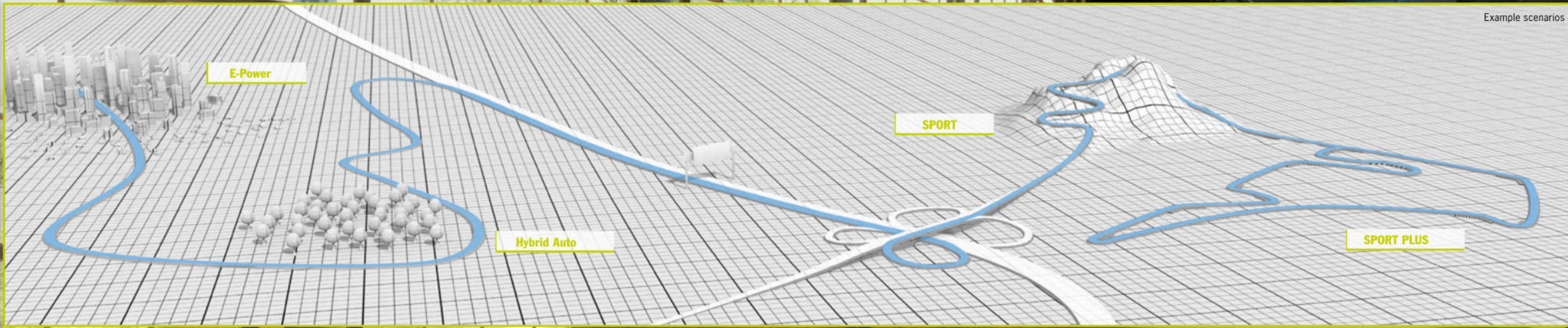


Car



Boosts driving pleasure. Brakes emissions.

In the new Panamera E-Hybrid models, you can use the mode switch and Porsche Communication Management (PCM) to choose between driving modes. Driving states, on the other hand, are fully automated, which means that this progressive drive concept can unlock maximum potential in every situation. For information on the different driving modes in the Cayenne S E-Hybrid, please visit www.porscheusa.com or refer to the Cayenne catalog.



E-Power mode helps to ensure an intense, all-electric driving experience with zero fuel consumption and zero local emissions, e.g. in town. The combustion engine switches on when you are in need of more power.

Hybrid Auto mode exploits the efficiency advantages of the combined system. As the situation demands (e.g. on rural highways and roads), the car is driven by the electric machine, the combustion engine or by both together. During coasting phases, the combustion engine switches off – for emission-free gliding. Thanks to the system's recovery capability, brake energy is converted into electrical energy and stored until needed for all-electric driving.

Now imagine you demand enhanced performance and responsiveness, e.g. when overtaking: boosting is activated to take advantage of the total system torque available from the electric machine and combustion engine for maximum propulsion.

Hairpin. Banked turns. Zigzag roads. In **SPORT mode**, one thing matters more than ever: driving pleasure. With this in mind, the combustion engine is activated by default. It provides acceleration in interaction with the electric machine for maximum boosting.

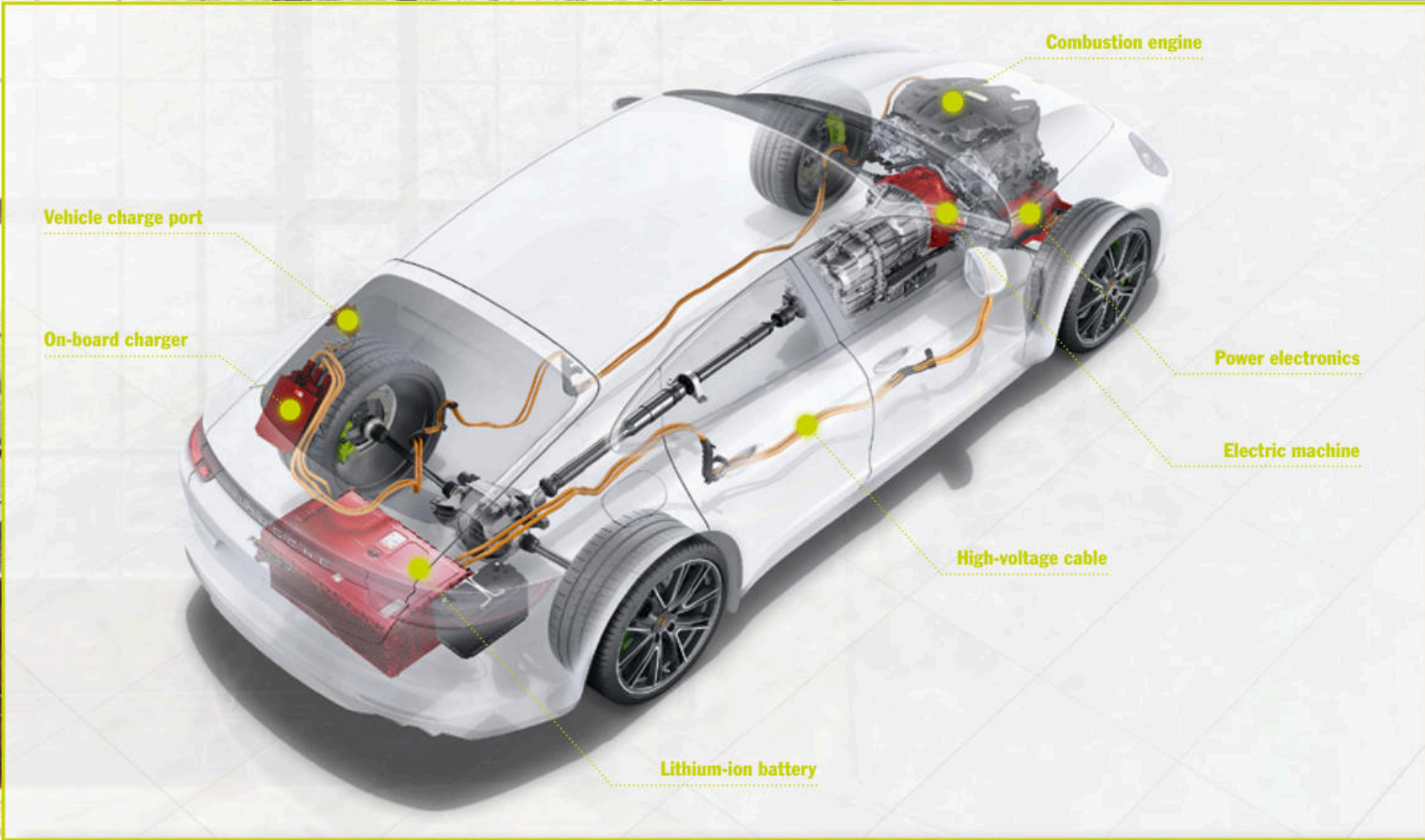
SPORT PLUS mode lets you experience the car's full performance potential – e.g. on the racetrack. The power output reserves of the combustion engine are used to charge the battery. The result: even greater boost availability all the way up to top track speed.

Driving modes

We don't make compromises. We make sports cars.

The core of Porsche E-Performance is the car. For this reason, our plug-in hybrid technology must fulfil two exacting demands at the same time. First, it must reduce fuel consumption and emissions. Second, it must push the driver into the seat. Just as you would expect of a Porsche.

Therefore, a consistently high total torque and a dynamic response are available across a particularly wide engine speed range. Behind the wheel, this means even greater performance at the push of a button. And a new maximum limit for your adrenaline level.



Principle diagram showing Panamera 4 E-Hybrid as an example



At first glance: sporty. And at every other, too.

The most important data relating to your Panamera E-Hybrid models are always in view – in clear and compact form. This is made possible by the intelligent networking of various information systems. Or, in short: Porsche Advanced Cockpit. The new control and display concept comprises the refined instrument cluster, Porsche Communication Management (PCM) with 12-inch touchscreen display, and the center console with Direct Touch Control.

The centrally positioned power meter of the instrument cluster is inspired by that of the 918 Spyder. It shows the real-time power demand and has separate arcs for boost and recovery. Hybrid screens

visualize, among other data, electric range and battery state of charge.

From the 12-inch touchscreen display of Porsche Communication Management (PCM), which supports multi-touch gesture control, you can access Porsche Connect services, call up information, e.g. the energy flow display, and select various vehicle and hybrid functions. The most important vehicle functions can be operated by Direct Touch Control from the center console.

Driver displays

**Team work achieves big things.
What goes for motorsport applies
for the road.**

In the Panamera E-Hybrid models, driving feels like driving a Porsche should: sporty. The reasons immediately become clear: agility, dynamic performance. And, of course, an abundance of power.

The crucial factor is the interaction between combustion engine and electric machine: two propulsion units that complement each other perfectly. The combustion engine builds power output and torque with increasing rpm. The maximum torque of the electric machine is on offer at any instant.

In short: drive technology that has its roots in motorsport. Having proven itself on the racetrack, it is now making the transition to the road in the new Panamera E-Hybrid models.





Panamera Turbo S E-Hybrid

What marks the dawning of a new era? The forerunners.

The new Panamera Turbo S E-Hybrid and the new Panamera Turbo S E-Hybrid Executive.

Those who take the lead must always keep on going. Here's the proof: the Panamera Turbo S E-Hybrid. This high-powered hybrid derives its potential from a power-dense 4.0-liter twin-turbo V8 engine and an electric machine that speaks a clear language: performance.

The Panamera Turbo S E-Hybrid accelerates from 0 to 60 mph in 3.2 seconds and breaks barriers to a new dimension with a maximum total system power output of 680 hp and a top track speed of 192 mph.

Meanwhile, the Panamera Turbo S E-Hybrid Executive offers freedom to flourish: extra legroom and greater comfort in the rear compartment. Business class in fact – on the way to the airport or a meeting.

Both models combine intelligent hybrid technology with comprehensive connectivity and an ultra modern standard specification. They transform excitement into electrifying thrills. And power into superlative performance.

Vehicle features.

- Maximum system power output 680 hp
- 4.0-liter twin-turbo V8 engine 550 hp
- Electric machine 136 hp
- 8-speed Porsche Doppelkupplung (PDK)
- All-wheel drive
- Sport Chrono Package
- Adaptive air suspension
- Porsche Dynamic Chassis Control (PDCC Sport)
- Rear-axle steering (standard in the Panamera Turbo S E-Hybrid Executive)
- Differentiation features in Acid Green: instrument cluster needles, brake calipers, 'e-hybrid' logo surround on front doors and model designation surround on tailgate

**Courage has changed the sports car of the future.
And the future of the sports car.**

**The new Panamera 4 E-Hybrid and
the new Panamera 4 E-Hybrid Executive.**

With the Panamera 4 E-Hybrid, our engineers proved that courage is the most important drive of all. Courage to break with conventions. To change one's point of view. And to inspire the emergence of something immense. In the sedan segment as well as in the hybrid era.

Besides the comfort afforded by four seats, the Panamera 4 E-Hybrid is distinguished by one thing above all: zero room for compromise. This is confirmed by 462 hp of pure sports car performance. The 2.9-liter twin-turbo V6

engine alone produces 330 hp, showing that power output is not a mere afterthought. The Panamera 4 E-Hybrid Executive extends the sports car fascination: passengers in the rear can enjoy the benefits of the 5.9 inches longer wheelbase. It offers appreciably more legroom in the rear compartment – and, accordingly, greater comfort. Even at the top track speed of 172 mph.

Both series production athletes make it unmistakably clear where the journey is heading. Inexorably forwards.

Vehicle features.

- ➔ Maximum system power output 462 hp
- ➔ 2.9-liter twin-turbo V6 engine 330 hp
- ➔ Electric machine 136 hp
- ➔ 8-speed Porsche Doppelkupplung (PDK)
- ➔ All-wheel drive
- ➔ Sport Chrono Package
- ➔ Adaptive air suspension
- ➔ Differentiation features in Acid Green: instrument cluster needles, brake calipers, 'e-hybrid' logo surround on front doors and model designation surround on tailgate

Panamera 4 E-Hybrid

**Where some might give up,
for others the excitement is only just beginning.**

The new Panamera 4 E-Hybrid Sport Turismo.

A typical sedan? A genuine sports car? The Panamera 4 E-Hybrid Sport Turismo represents both. It is characterized by excellent everyday practicality and unequivocal sportiness – with a total system power output of 462 hp.

What's new is the 4+1 seating concept. It means sports car driving and goose bumps for up to five persons in total. This is made possible by the innovative design: a higher rear end and a larger rear hatch together with a significantly lower loading edge. As a result, the luggage compartment offers a loading capacity of over 45 cubic feet*. The possibilities are many. The limits are few and far between.

Vehicle features.

- Maximum system power output 462 hp
- 2.9-liter twin-turbo V6 engine 330 hp
- Electric machine 136 hp
- 8-speed Porsche Doppelkupplung (PDK)
- All-wheel drive
- Sport Chrono Package
- Adaptive air suspension
- Differentiation features in Acid Green: instrument cluster needles, brake calipers, 'e-hybrid' logo surround on front doors and model designation surround on tailgate

*Figure may vary by country and specification.



Panamera 4 E-Hybrid Sport Turismo



**Typical sports car:
an electrifying performer day in, day out.**

Cayenne S E-Hybrid.

We navigate the road to the future as progressively as we do dynamically. With the desire to go ever further. To give even more. To be pushed back into our seat even more. The Cayenne S E-Hybrid sets the pace in sport and the future. As one of the first plug-in hybrids in its segment. With a combined output of 416 hp. With a top track speed of 150 mph. And fuel consumption of 47 MPGe.

Vehicle features.

- Maximum system power output 416 hp
- 3.0-liter supercharged V6 engine 333 hp
- Electric machine 95 hp
- 8-speed Tiptronic S
- All-wheel drive
- Differentiation features in Acid Green: instrument cluster needles, brake calipers, 'e-hybrid' logo surround on front wings and model designation surround on tailgate



Cayenne S E-Hybrid



Porsche Connect





Get more day out of your everyday.

We want to be among the first each and every day. So what do we do when we're about to be over taken – by our own everyday life? We start over, and we take back control of our day, with Porsche Connect.

Enhanced Porsche Communication Management (PCM) serves as your control center for audio, communication and navigation functions. Fitted as standard in all E-Hybrid models, it features a high-resolution touchscreen display with integrated proximity sensor for user-friendly ease of operation.

The Connect Plus module¹ enhances the existing vehicle functions of your Porsche E-Hybrid model with the intelligent services and apps of Porsche Connect – all of which are intended to make the connection between car and driver even more intimate, to intensify that sports car fascination, and to make the challenges of everyday life quick and easy to overcome.

In short: with Porsche Connect, you get more out of every single day. And that gives you more time for the essential things in life. For family, friends, leisure – and driving your Porsche.

	Connect	Connect Plus
Apple CarPlay™	•	•
Car Connect Services	•	•
LTE telephone module with SIM card reader	–	•
Wireless Internet access	–	•
Connect App Services	–	•
Navigation and Infotainment Services	–	•

– not included • included

¹ The Connect Plus module is fitted as standard in the Panamera E-Hybrid models and available as an option for the Cayenne S E-Hybrid.



Porsche Connect



Porsche Connect at a glance

Expand your horizons – into the virtual world.

Connect App Services.

Using the Porsche Connect app for your smartphone or Apple Watch®, you can transfer navigation destinations and calendar events to your Porsche. In addition, the Real-time Traffic Information feature enables you to plan when and where to indulge in Porsche fascination, and gain access to various music services along the way.

Apple CarPlay™.¹

Enjoy a range of iPhone® apps in your Porsche. With the Siri® voice recognition interface, you can conveniently use your apps on the move. It minimizes distraction and allows you to keep your full concentration on the road.

Navigation and Infotainment Services.²

Find out in real-time what's going on in the world – whether it's in traffic, on the way to your destination, in the daily news, or on your Twitter timeline. What's more, you can also get up-to-date information on the weather, flight connections, events and gas stations. News reports and tweets are selected based on your interests and read aloud by the system.

Car Connect Services.³

Retrieve stats and data from your car using your smartphone or Apple Watch® and control vehicle functions remotely. Benefit from greater safety with emergency and breakdown calls that include location information and protect your Porsche with Security Services.

For further information on Porsche Connect, visit www.porscheusa.com/connect or consult your authorized Porsche dealer.

¹ Please visit www.apple.com/ios/carplay for more details and available apps through Apple CarPlay™.
² Functionality is dependent upon configuration of each individual vehicle. Some functions require Voice Control, which cannot be installed after production. Sim card and a separate, valid subscription to a mobile network provider (subject to charge) are required for use of Porsche Connect Services. Some features and services are available with a subscription and may or may not provide a free trial period. Please visit www.porsche.com/usa/connect/facts for more information.
³ Porsche Car Connect Services (excluding safety and Security Services) include an initial free subscription period, the length of which may vary by services package and country, but shall not be less than 3 months. For further information on free subscription periods, subscription costs, and availability of individual services in your country, please visit www.porscheusa.com/connect or consult your authorized Porsche dealer.



Show electricity who's in charge.

Porsche Connect offers a variety of ways in which you can intensify the bond between you and your Porsche. You also have access to a range of extra functions tailored specifically to your E-Hybrid model.

View hybrid status.

The Car Connect app for your smartphone or Apple Watch® lets you view important information about your E-Hybrid, including all-electric and combined range, the current charge status of the lithium-ion battery, and remaining charge time.

Remote control of charging process and air conditioning.

In addition, you can remotely control hybrid-specific functions of your Porsche for and at your total convenience. For example, you can decide the latest time by which the charging process should finish. Even the heating and air conditioning can be optimally configured to suit your daily routine. So you're always ready to go when it matters. Of course, that doesn't mean you can't act on the spur of the moment – you can start the

charging process or air conditioning instantly at any time.

Find charging facilities.

Need a charging point somewhere on your route? With the 'Charging pedestals' service of Porsche Connect, you can find charging stations nearby or at your destination. The results can be sorted easily by distance.

Hybrid-specific Connect services



Energy



Recharge your batteries whenever you feel the need.

In our opinion, an innovative vehicle concept is worth nothing if it ends with the vehicle. Porsche E-Performance therefore extends to the infrastructure, too: an optimally integrated vehicle charge port, practical charging equipment and ingenious charging facilities for use at home and on the road.

Porsche Universal Charger (AC) and vehicle charge port.

Provided as standard, the Porsche Universal Charger (AC) establishes a safe connection between your car and various types of socket. When plugged into the vehicle charge port, the charging connector is automatically detected and engaged by the car. The car is now immobilized. The

charging process starts instantly. With the charge timer button selected, you can delay the start of charging by entering an end time in the instrument cluster by which the battery should be fully charged. This is useful if, for example, you want to take advantage of cheaper off-peak pricing.



Charging infrastructure



Home advantage for your sports car.

For fast and convenient recharging of your Porsche at home, we recommend the installation of an 240v outlet. A wall mount for the Porsche Universal Charger is included with your E-Hybrid model.

Styled by Porsche Design, the optional Charging Dock is a tidy solution that makes the charger even easier to use. Like the wall mount, it can be fitted to a wall right next to your preferred parking spot.

Where wall mounting is not possible or if you would like a charge point for your

carport, the optional charging pedestal provides an alternative solution.

If you need any help with the installation of the charging equipment, your authorized Porsche dealer will be able to recommend a certified electrician on request.

- 1 Wall mount for the Porsche Universal Charger (AC)
- 2 Charging pedestal with Charging Dock

Charging at home



1



2

Stay energized. Even when parking.

Near shopping centers, in high rises or on the road: many towns and cities have public charging station compatible with your Porsche E-Hybrid model.

Alternatively, you can use the Porsche Universal Charger (AC) connected to a suitable, professionally installed electrical outlet, e.g. at work or when visiting friends. Porsche offers special easy-to-swap adapters to make this possible for different electrical sockets.

Your charging equipment can be stored in the space-saving transport case in the luggage compartment. If you would like to recharge your sports car abroad, you can request a compatible supply cable – available for all common electrical sockets worldwide.

With Porsche Connect, you will be able to locate the charging infrastructure that you require even faster in future: a dedicated function displays charging pedestals nearby, on your route or at your destination.

- 1 Porsche Communication Management (PCM) with the 'Charging pedestals' service
- 2 Charging cable including transport case



Charging on the road

Electricity



Still one of our most important duties in the future: generating power with electricity.

Electricity is the energy of the mobile future. It can be generated efficiently and with zero CO₂ emissions from renewable sources such as water, wind and sunlight and it can be carried over long distances by power grids. What's our contribution? With electricity, we generate sustainable driving pleasure. We build sports cars with

lithium-ion batteries and high-performance electric machines, which convert electrical power into instantaneous drive force – and ensure pulsating thrills at the wheel. We interpret electricity in our own way. And the result is as high-performing as it is efficient: Porsche E-Performance.



Summary

**Why are we working
on the sports car
of the near future?
We're energized by the
mere thought of it.**

Porsche E-Performance. That's our answer to the question of how we can reduce fuel consumption and emissions. With, as the name suggests, the most heart-pounding experience possible. It is this principled belief that distinguishes our approach from the more common conventions in the world of electric mobility. It is this belief that drives us ever forward. And never lets us stand still. And, yet, Porsche E-Performance promises even more: with cutting-edge connectivity and ingenious charging facilities.

With the Mission E concept study, our attention is focused on a new era – and we are formulating our very own vision of an all-electric sports car. With new ideas and concepts. With intelligent technologies. With the experience that we've accumulated from over 60 years in motorsport.

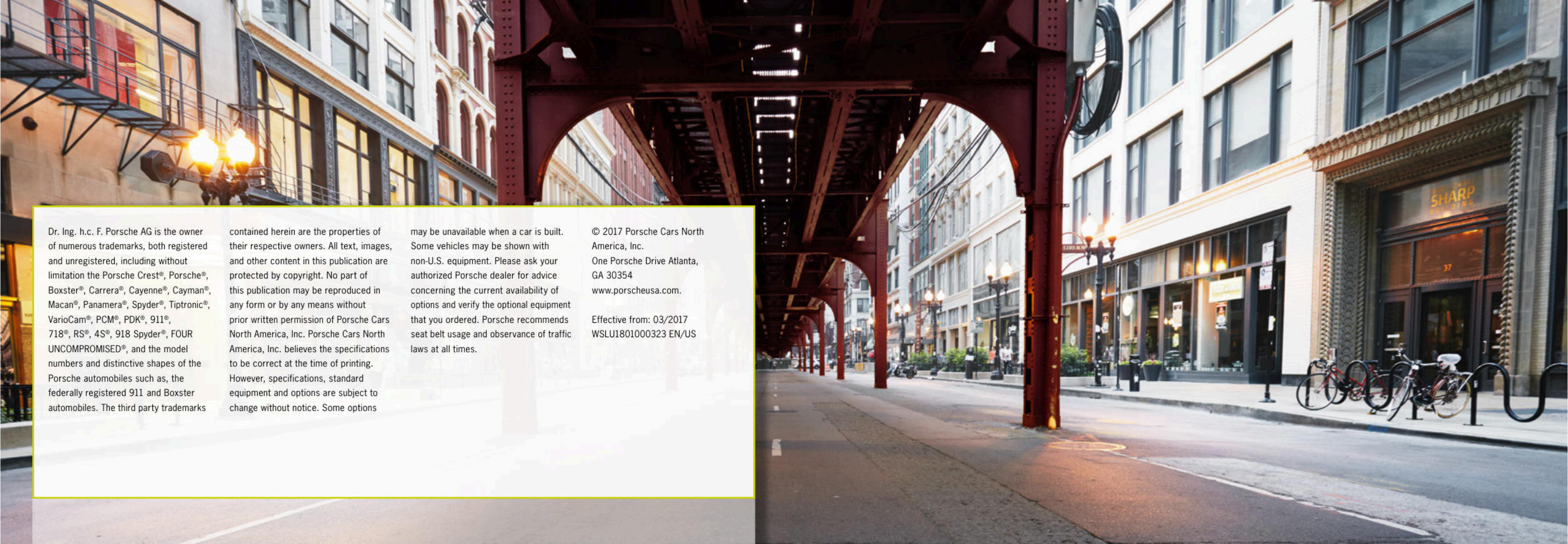


Technical data.

	Panamera Turbo S E-Hybrid/ Panamera Turbo S E-Hybrid Executive	Panamera 4 E-Hybrid/ Panamera 4 E-Hybrid Executive	Panamera 4 E-Hybrid Sport Turismo	Cayenne S E-Hybrid
Engine/transmission				
Type/cylinders	V8	V6	V6	V6
Displacement	4.0 liter	2.9 liter	2.9 liter	3.0 liter
Max. total system power at rpm	680 hp between 5,750–6,000	462 hp at 6,000	462 hp at 6,000	416 hp at 5,500
Max. total system torque at rpm	626 lb.-ft. between 1,400 and 5,500	516 lb.-ft. between 1,100 and 4,500	516 lb.-ft. between 1,100 and 4,500	435 lb.-ft. between 1,250 and 4,000
Max. power (combustion engine) at rpm	550 hp between 5,750 and 6,000	330 hp between 5,250 and 6,500	330 hp between 5,250 and 6,500	333 hp between 5,500 and 6,500
Max. torque (combustion engine) at rpm	567 lb.-ft. between 1,960 and 4,500	331 lb.-ft. between 1,750 and 5,000	331 lb.-ft. between 1,750 and 5,000	324 lb.-ft. between 3,000 and 5,250
Max. power (electric machine) at rpm	136 hp at 2,800	136 hp at 2,800	136 hp at 2,800	95 hp between 2,200 and 2,600
Max. torque (electric machine) at rpm	295 lb.-ft. at < 2,300	295 lb.-ft. at < 2,300	295 lb.-ft. at < 2,300	228 lb.-ft. at 1,700
Transmission	8-speed Porsche Doppelkupplung (PDK)	8-speed Porsche Doppelkupplung (PDK)	8-speed Porsche Doppelkupplung (PDK)	8-speed Tiptronic S

	Panamera Turbo S E-Hybrid¹/ Panamera Turbo S E-Hybrid Executive²	Panamera 4 E-Hybrid¹/ Panamera 4 E-Hybrid Executive¹	Panamera 4 E-Hybrid Sport Turismo¹	Cayenne S E-Hybrid¹
Performance/range				
Top track speed	192 mph/192 mph	172 mph/172 mph	170 mph	150 mph
Top track speed (all-electric)	86 mph/86 mph	86 mph/86 mph	86 mph	77 mph
Acceleration 0–60 mph	3.2 secs/3.3 secs	4.4 secs/4.5 secs	4.4 secs	5.4 secs
Fuel consumption (EPA estimates)¹				
MPGe	TBD	TBD	TBD	46 MPGe

¹ U.S. EPA estimates. Your mileage and range may vary. As of the time of printing, the 2018 EPA numbers are yet to be determined. Please see your authorized Porsche dealer or visit www.porscheusa.com for the latest information.



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may be unavailable when a car is built. Some vehicles may be shown with non-U.S. equipment. Please ask your authorized Porsche dealer for advice concerning the current availability of options and verify the optional equipment that you ordered. Porsche recommends seat belt usage and observance of traffic laws at all times.

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Effective from: 03/2017
WSLU1801000323 EN/US

