

# WIRELESS CHARGING.

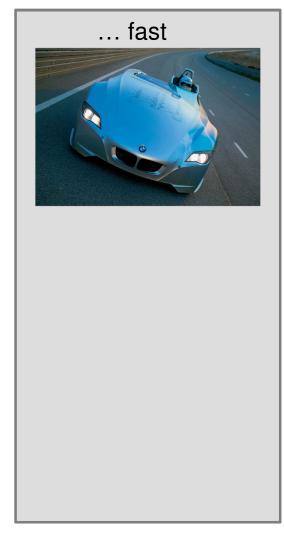
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# DEFINITION OF PREMUIM CHARGING.







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# BMW'S PREMIUM CHARGING OFFERS.

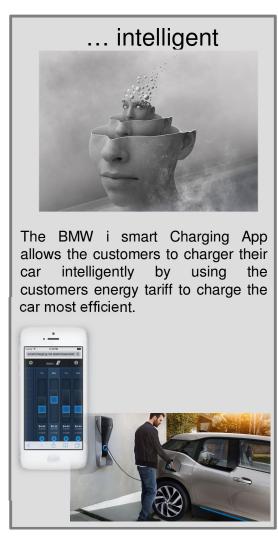


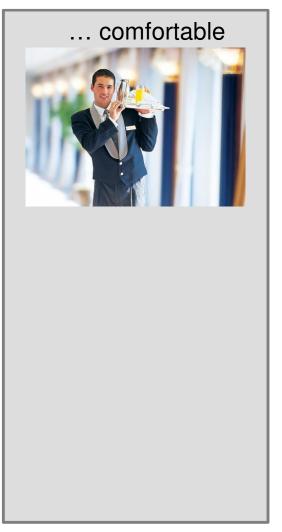




## BMW'S PREMIUM CHARGING OFFERS.

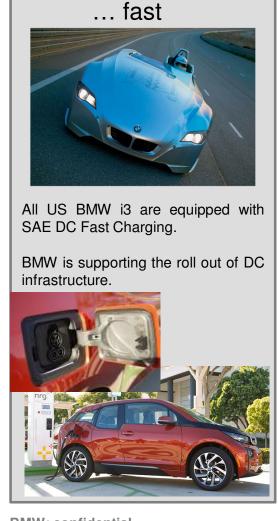






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## BMW'S PREMIUM CHARGING OFFERS.







# WIRELESS CHARGING OFFERS A COMFORTABLE CHARGING EXPERIENCE.

#### Easy and convenient

- No plugging
- No refueling
- Always connected
- Fully charged <2.5h</li>



#### CUSTOMER EXPERIENCE.

- Charging pad will automatically establish wireless communication with the vehicle.
- The customer will get an supported guidance (shown in the vehicle display) to reach the best position (coil to coil) for power transfer.
- Automatic start of the charging process.
- Charging status can be checked on the display key or App.
- System will stop when foreign objects are detected.

BMW: confidential

## **HOW IT WORKS.**

Frequency: 85 kHz

Communication: IEEE 802.11n @ 2.4 und 5GHz

Power: ≥ 3.7 kW (PHEV)

≥ 7.4 kW (BEV)

Efficiency: ≥ 90%

Secondary Coil: Circular

Magnetic coupling

grid

# WAYS TO PARK THE VEHICLE.





#### STANDARDIZATION.

- The standardization is key for interoperability.
- BMW is active in SAE, ISO/IEC.
- The Harmonization between SAE and ISO/IEC is key to achieve true interoperability.
- System
  - SAE J2954, ISO19363 / IEC61980
- Communication
  - SAE J2847/6, ISO/IEC 15118-7

# THANK YOU.

