



Automatic barrier with smartphone control feature

Automatic closing feature

Operating autonomy up to 1 year (rechargeable li-ion batteries)

Solar panel for extended autonomy

Manual control possibility

Constant power supply option (optional backup battery)

# Smart Parking Barrier

## TECHNICAL SHEET

# Technical characteristics

|                                         |                                                                                                                     |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions (barrier opened):</b>     | 918 mm x 331 mm x 70 mm                                                                                             |
| <b>Dimensions (barrier closed):</b>     | 453 mm x 331 mm x 517 mm                                                                                            |
| <b>Weight:</b>                          | 15.2 kg                                                                                                             |
| <b>Working temperature:</b>             | -20 °C to 60 °C                                                                                                     |
| <b>Working humidity:</b>                | 5 % to 95 % RH, non-condensing                                                                                      |
| <b>Operating altitude:</b>              | 2000 m                                                                                                              |
| <b>Ingress protection:</b>              | IP65                                                                                                                |
| <b>Nominal travel time:</b>             | <5 s                                                                                                                |
| <b>Power supply:</b>                    | Parklio battery pack<br>Parklio double battery pack<br>AC/DC external low voltage power supply<br>(constant supply) |
| <b>Operating voltage:</b>               | 6 Vdc – 11 Vdc                                                                                                      |
| <b>Current consumption (operation):</b> | 2 A continuous, 8 A peak current                                                                                    |
| <b>Current consumption (standby):</b>   | 100 uA average standby current                                                                                      |
| <b>Wireless connectivity:</b>           | Bluetooth LE                                                                                                        |
| <b>Over-The-Air upgrades:</b>           | Yes                                                                                                                 |
| <b>Antenna interface:</b>               | Internal 2.4 GHz antenna                                                                                            |
| <b>Sensors:</b>                         | One magnetic sensor and one Class 1 laser sensor for detecting vehicle presence                                     |
| <b>Protection and coatings:</b>         | Cold dip galvanized and lacquered, powder coated<br>Stainless steel                                                 |

Parklio Smart Parking Barrier technical data

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|                              |                      |
|------------------------------|----------------------|
| <b>Transmission power:</b>   | 4 dBm                |
| <b>RF Power Accuracy:</b>    | ±2.5 dB              |
| <b>Receiver sensitivity:</b> | -96 dBm              |
| <b>Frequency range:</b>      | 2402 MHz to 2480 MHz |
| <b>Adv. interval:</b>        | 211 ms               |

### BLE radio performance

|                                  |                                                                                                                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Nominal voltage:</b>          | 7.4 V                                                                                                                                                                                                                |
| <b>Battery charging voltage:</b> | 8.4 V                                                                                                                                                                                                                |
| <b>Typ. capacity:</b>            | 3200 mAh (single) / 6400 mAh (double)                                                                                                                                                                                |
| <b>Discharge temperature:</b>    | -20 °C to 60 °C                                                                                                                                                                                                      |
| <b>Charging temperature:</b>     | 0 °C to 40 °C                                                                                                                                                                                                        |
| <b>Charger input voltage:</b>    | 9V (single) / 12V (double)                                                                                                                                                                                           |
| <b>Charging current:</b>         | 700 mA (single) / 1500mA (double)                                                                                                                                                                                    |
| <b>Protection:</b>               | Input short circuit protection<br>Input reverse polarity protection<br>Charging over-temperature protection<br>Charging over-voltage protection<br>Output over-current protection<br>Output short-circuit protection |

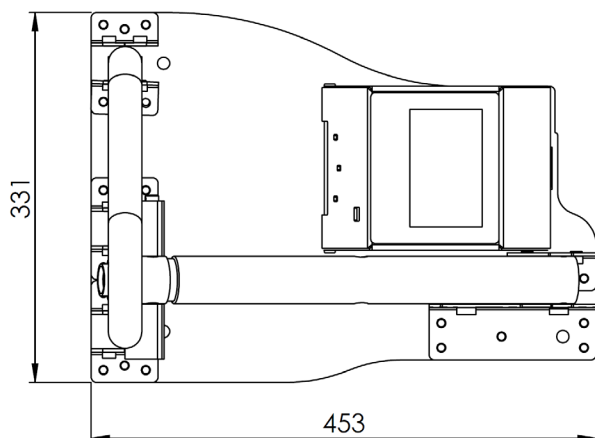
### Battery pack specifications

|                                   |                                                                              |
|-----------------------------------|------------------------------------------------------------------------------|
| <b>Input voltage:</b>             | 85 Vac to 264 Vac                                                            |
| <b>Input voltage frequency:</b>   | 47 Hz to 63 Hz                                                               |
| <b>Efficiency:</b>                | 83 %                                                                         |
| <b>Input current:</b>             | 1.2 A (115 Vac) 0.8A (230 Vac)                                               |
| <b>Inrush current:</b>            | 30A (115 Vac) 60A (230 Vac)                                                  |
| <b>Output voltage:</b>            | 10.8 Vdc - 13.8 Vdc                                                          |
| <b>Continuous output current:</b> | 4.5 A                                                                        |
| <b>Rated power:</b>               | 54 W                                                                         |
| <b>No load power:</b>             | 0.3 W                                                                        |
| <b>Output ripple voltage:</b>     | 120 mVpp                                                                     |
| <b>Operational temperature:</b>   | -30 °C to 70 °C                                                              |
| <b>Operational humidity:</b>      | 20 % to 90 %, non-condensing                                                 |
| <b>Operational altitude:</b>      | 2000 m                                                                       |
| <b>Protection:</b>                | Over voltage<br>Current limiting<br>Overload<br>Short circuit<br>Overcurrent |
| <b>Dimensions:</b>                | 52.5 mm x 90 mm x 54.5 mm                                                    |
| <b>Mounting:</b>                  | DIN rail                                                                     |

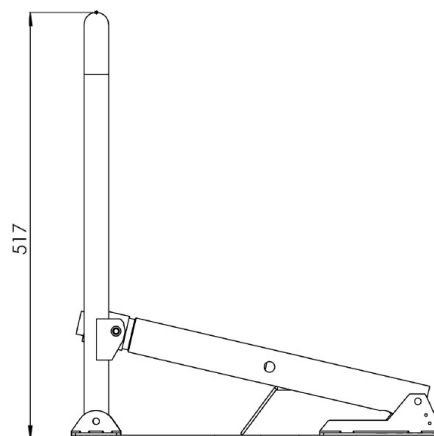
#### External AC/DC Power supply specifications

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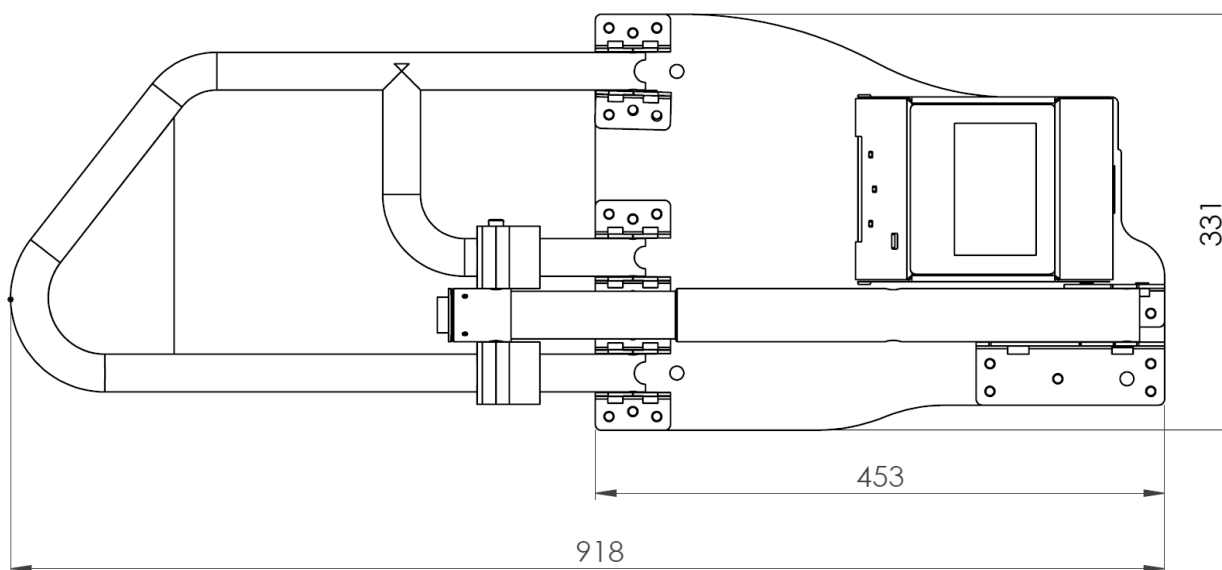
# Overall dimensions



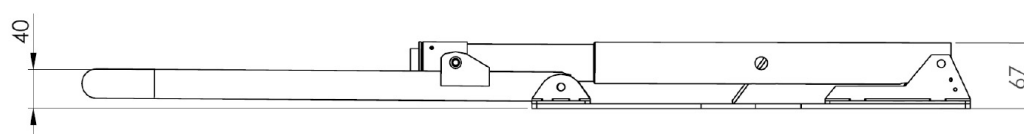
**Barrier Raised - Top View**



**Barrier Raised - Side View**



**Barrier Lowered - Top View**



**Barrier Lowered - Side View**



## Attention!

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- Please read the user manual and technical sheet before installing and using the Parklio smart parking barrier.
- Always follow the safety instructions.
- Keep this user manual at hand for future reference.

