

## Datasheet PDSPE

### Product Variants

- PDSPE 25D60 S

### General Product Specifications

- Number of Sockets: 2
- Type of sockets: 2x Type 2 socket - in accordance with IEC62196-2
- Energy Meter (per socket): MID certified 4 quadrant meter
- Supported input supply voltage (+/-10%):
  - 230VAC Line – Neutral / 400VAC Line – Line
    - 3L+N+PE
  - 230VAC Line - Line
    - 3L+PE<sup>1</sup> [Without N]
- Maximum current (per socket):
  - 32A per phase
- Maximum power (per socket):
  - 1-phase: 7.4 KW
  - 3-phase: 22 KW
- Switch disconnecter: 4P – 100A – 400VAC
- Rated insulation voltage  $U_i$ : 500V
- Rated impulse withstand voltage  $U_{imp}$ : 4kV
- Conditional rated short-circuit current  $I_{cc}$ : 15kA
- Daisy chain possibility from single grid connection: YES<sup>2</sup>
- Short circuit protection (per socket):
  - 10x38 Fuses up to 32A per phase
- Software over current protection (per socket):
  - >110% after 60s
- Residual current protection (per socket):
  - 4-pole type B 30mA with automatic recloser<sup>3</sup>
- Authentication Methods:
  - RFID Card
  - CSMS (Charging Station Management System)
    - Remote Start/Stop
    - QR Code
    - Auto Charge
  - ISO15118 Plug & Charge<sup>4</sup>



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<sup>1</sup>Caution: Not supported by all vehicles.

<sup>2</sup> When equipped with power sharing module (which consists out of a separate 63A fuse holder)

<sup>3</sup> Automatic recloser automatically resets the RCCB with a predefined number of times corresponding to configuration.

<sup>4</sup>Hardware ready, software will be ready Q1/2026

- GUI – Graphical User Interface:
  - Usage Instructions
  - Charger Status
  - Charging Status
  - Price Transparency – in combination with CSMS functionality<sup>5</sup>
  - Can be fully customized for brand recognition<sup>6</sup>
- Display:
  - Size: 7”
  - Panel: IPS
  - Color depth: +16M
  - Brightness: 1000cd/m<sup>2</sup> (1000 nits)
  - Resolution: 1024 x 600 <sup>7</sup>



### Communication Protocols

- Vehicle communication:
  - Mode 3 in accordance with IEC 61851
  - Ready for ISO 15118 Communication (HLC – High level communication)
  - Ready for Vehicle to Grid
- RFID Reader:
  - ISO/IEC 14443A/B, MIFARE Classic/Ultralight/DESFire, NFC ready
- Network:
  - Ethernet, Wi-Fi, 4G modem (SIM 1 & SIM 2 failover setup possible)
- Mobile communication:
  - Standard 4G<sup>8</sup>
  - Dual antenna (antenna diversity) set up for increased performance in poor connectivity areas
  - Regular size SIM card
  - Hardware is upgradable to e-SIM support in future
  - Support for private SIMs by freely configurable APN + APN Authentication.
- Communication to CSMS:
  - OCPP 2.0.1 (future firmware releases will support OCPP 2.1+)
    - Including: Core, Advanced Security and all Smart Charging use-cases.

### Charging Station Monitoring Equipment for Advanced Diagnostics & Functionality

- Mobile Antenna Diversity: Increased mobile connectivity in poor connectivity environments.
- Dual Axis Tilt Sensor: Detection if charger is perfectly up straight or tilted/rolled in a certain direction (accident / physical damage monitoring)
- Internal Temperature and Humidity sensor
- Active anti condensation with dewpoint-regulation: Actively controls the internal heater depending on the internal temperature and humidity measurements
- Access Door Contact: Detect opening / closing door and signaling to backend.

<sup>5</sup> Price transparency is in combination with backend capabilities (price sharing, pricing data availability)

<sup>6</sup> CPO app template can be used as base design for charger display template, in cooperation with CPO UX/UI engineers, to achieve seamless brand recognition and similar brand workflow

<sup>7</sup> Software upscaling possible without visible quality loss as part of detail brand customization

<sup>8</sup> 5G alternative modem can be equipped upon request and standard 4G modem can be upgraded to a 5G model as a retrofit in the future.

## Payment Options Summary

- RFID token CSMS: payment handled by CSMS/CPO for all valid tokens
- Dynamic QR Code: scanning the unique QR code leads to app/landing page of CSMS / CPO, which makes it possible for the user to use CPO subscription payment model or start ad-hoc payments with payment card e.g.: credit/debit card.
- External Payment Terminal: e.g.: PAYTER integration directly into CSMS backend or optionally directly integrated into the charging software stack.
- Plug & Charge: <sup>9</sup>upon connection vehicle to charger, automatic vehicle authentication and payment/billing from CSMS.
- EMV Payment system<sup>10</sup>: low-cost alternative to external payment terminal, making it possible to execute payments using several payment cards like (but not limited to): MasterCard and Visa.

## Future proofness / Ongoing development

- Integrated Parking Bay Occupancy Detection [Development ongoing – will be available as a retrofit]
- Predictive maintenance<sup>11</sup>: active components lifecycle data is stored and communicated with the backend, which can be used to compute more effective planned maintenance visits reducing potential downtime.

## Environmental conditions

- Operating temperature: -25°C - +50°C
- Humidity: 5% - 95%
- Electrical safety class: Class I – double/reinforced insulation up to RCD according to IEC61439-1.
- Ingress protection: IP54
- Impact protection: IK10

## Casing

- Type: charging pole
- Mounting options: metal or concrete base
- Material: Aluminum <sup>12</sup>
- Color: RAL7011 - other RAL / RALDESIGN / CUSTOM colors on request
- Dimensions:
  - Casing: 1500 x 300 x 300 mm
  - Footprint: 90.000mm<sup>2</sup>
  - Weight: +-35KG<sup>13</sup>



<sup>9</sup> Charger is Plug & Charge ready, firmware readiness expected by Q1/2026. Functionality dependent on Plug & Charge functionality being available in the used CSMS.

<sup>10</sup> Currently in development, after successful development will be available as an optional retrofit

<sup>11</sup> Currently in development, will be ready in Q1/2026

<sup>12</sup> Used Aluminum consists out of 79% recycled Aluminum for environmental sustainability goals

<sup>13</sup> Makes it possible for easy handling and installation without need for lifting equipment/mechanical aids.