

# EV Charger



## Binary series Smart AC EV Charger

BRY-A22D7



### High Performance

- Industry's first charging & discharging solution for vehicles with V2L function.
- Implement V2X solution through the integration of SolaX PV-ESS.
- Capable of 100% green energy.
- Automatic switch between single and three phases.
- Maximizing surplus green utilization in a zero-export system.



### Assured Safety

- Current leakage protection.
- Smart dynamic load balance control.
- ISO Insulation verification on DC output cable.<sup>④</sup>
- Decoupling of charge and discharge ensures the reliability.



### Intelligent Design

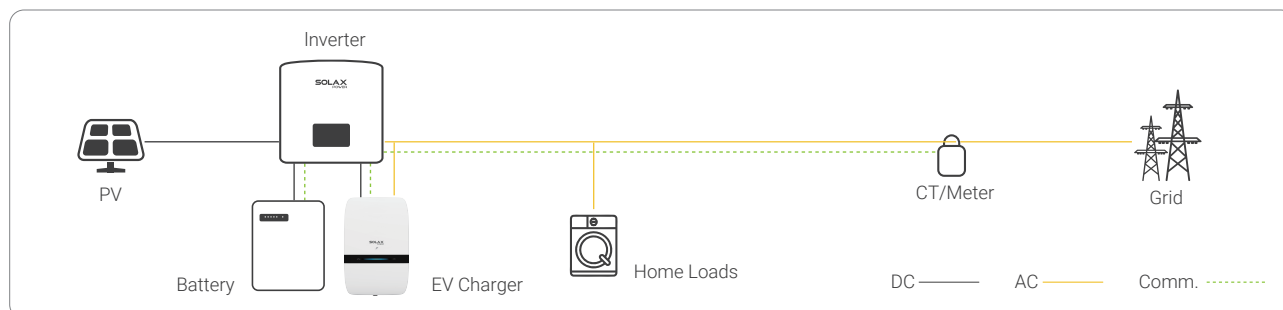
- Smart vehicle and RFID card management.
- Multi-time slot charging and discharging scheduling.
- Charging and discharging history management.



### Flexible Adaptability

- The discharge function supports mainstream V2L electric vehicle models.
- Support multiple communication protocols.
- Support black start, the EV battery can be used as a backup power source for home.

## Solutions



## BRY-A2207

| AC NOMINAL INPUT                    |                                                                                                                                                                                                                                                       |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage                             | 1Ph 230 V / 3 Ph 400 V                                                                                                                                                                                                                                |
| Frequency                           | 50 Hz / 60 Hz                                                                                                                                                                                                                                         |
| Grounding type                      | TN, TT, IT <sup>①</sup>                                                                                                                                                                                                                               |
| AC NOMINAL OUTPUT                   |                                                                                                                                                                                                                                                       |
| Voltage                             | 1Ph 230 V / 3Ph 400 V                                                                                                                                                                                                                                 |
| Current                             | 6 - 32 A                                                                                                                                                                                                                                              |
| Power                               | 1.4 ~ 22 kW <sup>②</sup>                                                                                                                                                                                                                              |
| DC NOMINAL OUTPUT <sup>③</sup>      |                                                                                                                                                                                                                                                       |
| Voltage                             | 400 V                                                                                                                                                                                                                                                 |
| Current                             | 17.5 A                                                                                                                                                                                                                                                |
| Power                               | 7 kW <sup>②</sup> @ Voltage > 350 Vdc                                                                                                                                                                                                                 |
| INTERFACE & COMMUNICATION           |                                                                                                                                                                                                                                                       |
| Communication interface             | WiFi / Ethernet / CAN / DI / RS485                                                                                                                                                                                                                    |
| Protocol                            | OCPP 1.6j, Modbus TCP / RTU, Cloud API                                                                                                                                                                                                                |
| Communcation                        | IEC 61851-1                                                                                                                                                                                                                                           |
| Authentication                      | Plug & Charge / RFID (ISO-14443-A) / APP / Button                                                                                                                                                                                                     |
| HMI                                 | RGB LED / APP / Button                                                                                                                                                                                                                                |
| Remote control                      | APP & Web                                                                                                                                                                                                                                             |
| Application                         | Residential                                                                                                                                                                                                                                           |
| GENERAL DATA                        |                                                                                                                                                                                                                                                       |
| Housing material                    | PC                                                                                                                                                                                                                                                    |
| Installation method                 | Wall / Pedestal (optional)                                                                                                                                                                                                                            |
| Charging outlet                     | Type2 plug (IEC 62196)                                                                                                                                                                                                                                |
| Cable length                        | 6.5 m                                                                                                                                                                                                                                                 |
| Noise                               | Charging: Noiseless<br>Discharging: ≤ 54 dB (A) @ 1m / 20 °C                                                                                                                                                                                          |
| Operating temperature               | -30~50 °C (discharging derating above ambient temperature 43 °C)                                                                                                                                                                                      |
| Storage temperature                 | -40 ~ 70 °C                                                                                                                                                                                                                                           |
| Operation humidity                  | 5% ~ 95% RH (non-condensing)                                                                                                                                                                                                                          |
| Max. operation altitude             | 2000 m                                                                                                                                                                                                                                                |
| Degree of protection                | IP54 / IK10                                                                                                                                                                                                                                           |
| Cooling method                      | Smart air cooling                                                                                                                                                                                                                                     |
| Application site                    | Indoor / Outdoor                                                                                                                                                                                                                                      |
| Weight                              | 17 kg                                                                                                                                                                                                                                                 |
| Dimension (W x H x D)               | 376 × 562 × 128 mm                                                                                                                                                                                                                                    |
| PROTECTION                          |                                                                                                                                                                                                                                                       |
| Multiple protection                 | Over / Under voltage protection, Overload protection, Shortcircuit protection, Current leakage protection, Grounding protection, Surge protection, Overtemperature protection, ISO Insulation verification on DC output cable (optional) <sup>④</sup> |
| Theft protection                    | Support theft protection with a padlock                                                                                                                                                                                                               |
| Integral current leakage protection | Integrated current failure monitoring (30 mA AC & 6 mA DC)                                                                                                                                                                                            |
| Relay protection                    | Relay weld detection                                                                                                                                                                                                                                  |
| Built-in PEN fault technology       | According to BS 7671:2018 requirements <sup>⑤</sup>                                                                                                                                                                                                   |
| Standards                           | IEC 61851-1:2017, IEC 62196-2:2016                                                                                                                                                                                                                    |

① IT 1Ph 230V.

② The actual charging and discharging power depends on the EV-side.

③ The DC output of the charger needs to be connected to a compatible inverter.

④ BRY-MBOX is required for scenarios where the distance between the EVC and the inverter exceeds 20 meters.

⑤ Only for chargers sold in the UK region.