# EV Charger




# Binary series
# Smart AC EV Charger

**BRY-A22D7**

## High Performance

- Residential'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.④
- Decoupling of charge and discharge ensures the reliability.

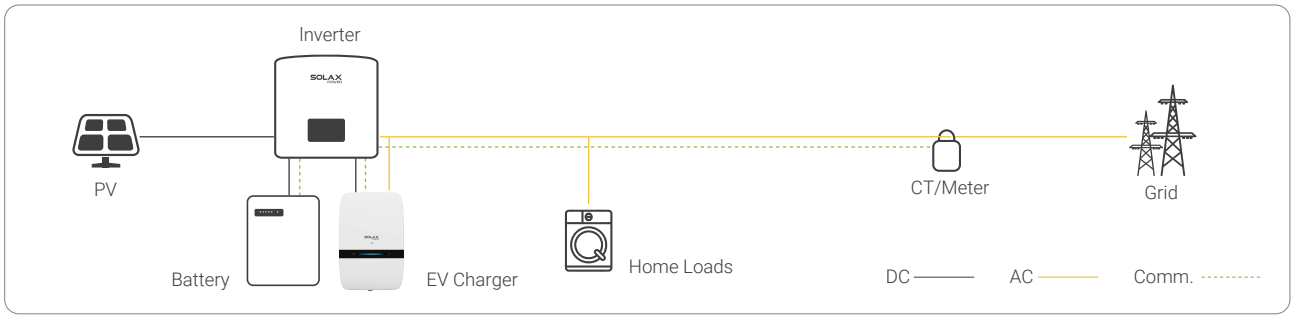
## Intelligent Design

- 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






*V1.0 Information may be subject to modify without notice. 650.00161.00*

SOLAX POWER | BVB 09 PARTNER

# BRY-A22D7

| | |
|---|---|
| **AC NOMINAL INPUT** | |
| Voltage | 1Ph 230V / 3 Ph 400 V |
| Frequency | 50 Hz / 60 Hz |
| Grounding type | TN, TT, IT① |
| **AC NOMINAL OUTPUT** | |
| Voltage | 1Ph 230 V / 3Ph 400 V |
| Current | 6-32 A |
| Power | 1.4 ~ 22 kW② |
| **DC NOMINAL OUTPUT③** | |
| Voltage | 400 V |
| Current | 17.5 A |
| Power | 7 kW② @ 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 |
| Discharge efficiency | ≥95.3%(400Vdc,50% load)<br>≥94.3%(400Vdc, 50% load above) |
| Noise | Charging：Noiseless<br>Discharging：≤ 54 dB (A) @ 1m / 20 ℃ |
| Operating temperature | -30 ~ 50 ℃ (discharging derating above ambient temperature 43 ℃) |
| Storage temperature | -40~70 ℃ |
| 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 | 16.5 kg |
| Dimension (W x H x D) | 376 × 562 × 128 mm |
| **PROTECTION** | |
| Multiple protection | Over/Under voltage protection, Overload protection, Shortcircuit protection,<br>Current leakage protection, Grounding protection, Surge protection,<br>Overtemperature protection, ISO Insulation verification on DC output cable (optional)④ |
| Theft protection | Support theft protection with a padlock |
| Integral current leakage protection | Integrated current failure monitoring (30mA AC & 6mA DC) |
| Relay protection | Relay weld detection |
| Built-in PEN fault technology | According to BS 7671:2018 requirements⑤ |
| 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.