

# EV Charger



## Smart EV Charger G2

X1-HAC-4 / X1-HAC-7

X3-HAC-11 / X3-HAC-22



### High Efficiency

- Capable of 100% green energy
- Automatic switch between single and three phases
- Maximizing surplus green energy utilization in a zero-export system



### Assured Safety

- Current leakage protection (30mA AC & 6mA DC)
- Smart dynamic load balance control



### Intelligent Design

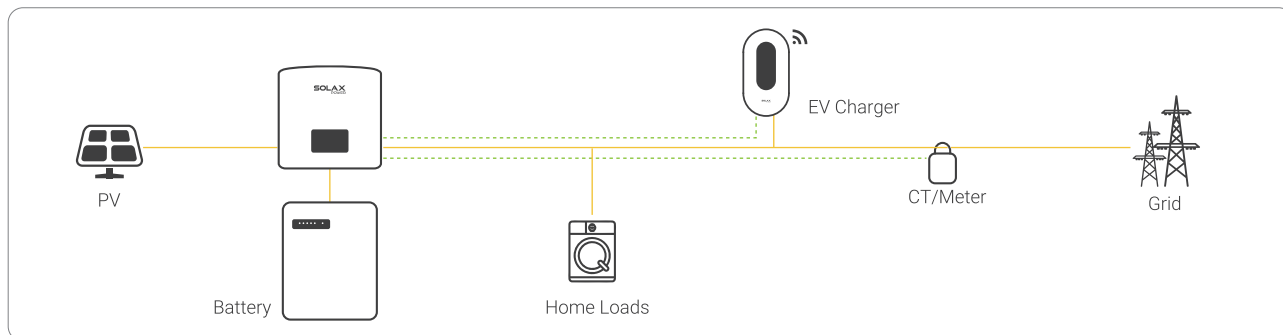
- Smart RFID management function
- Smart APP remote control



### Flexible Adaptability

- Selectable plug or socket outlet
- Easy indoor and outdoor installation
- Supporting multiple communication protocols

## Solutions



**X1-HAC-4**
**X1-HAC-7**
**X3-HAC-11**
**X3-HAC-22**

| AC NOMINAL INPUT                  |                                                                                                                                                                             |                                            |                                              |                                              |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------|----------------------------------------------|
| Voltage                           | 230 V                                                                                                                                                                       | 230 V                                      | 400 V                                        | 400 V                                        |
| Frequency                         | 50 Hz / 60 Hz                                                                                                                                                               | 50 Hz / 60 Hz                              | 50 Hz / 60 Hz                                | 50 Hz / 60 Hz                                |
| Grounding type                    | TN, TT, IT                                                                                                                                                                  | TN, TT, IT                                 | TN, TT, IT                                   | TN, TT, IT                                   |
| AC NOMINAL OUTPUT                 |                                                                                                                                                                             |                                            |                                              |                                              |
| Voltage                           | 230 V                                                                                                                                                                       | 230 V                                      | 400 V                                        | 400 V                                        |
| Current                           | 6-20 A (single phase)                                                                                                                                                       | 6-32 A (single phase)                      | 6-16 A (single phase or three phases)        | 6-32 A (single phase or three phases)        |
| Power                             | 1.4 ~ 4.6 kW                                                                                                                                                                | 1.4 ~ 7.2 kW                               | 1.4 ~ 11 kW                                  | 1.4 ~ 22 kW                                  |
| INTERFACE & COMMUNICATION         |                                                                                                                                                                             |                                            |                                              |                                              |
| Communication interface           | Wi-Fi / Ethernet / 4G (optional) / RS 485 × 2                                                                                                                               |                                            |                                              |                                              |
| Protocol                          | OCPP 1.6j, Modbus TCP, Modbus RTU, Cloud API                                                                                                                                |                                            |                                              |                                              |
| Communication                     | IEC 61851-1, ISO 15118 (optional)                                                                                                                                           |                                            |                                              |                                              |
| Authentication                    | Plug & Charge / RFID (ISO-14443-A) / APP                                                                                                                                    |                                            |                                              |                                              |
| MID meter                         | External (optional)                                                                                                                                                         |                                            |                                              |                                              |
| HMI                               | RGB LED / APP / LCD (optional)                                                                                                                                              |                                            |                                              |                                              |
| Remote control                    | APP & Web                                                                                                                                                                   |                                            |                                              |                                              |
| Application                       | Residential / Destination place / Public                                                                                                                                    |                                            |                                              |                                              |
| GENERAL DATA                      |                                                                                                                                                                             |                                            |                                              |                                              |
| Housing material                  | PC                                                                                                                                                                          |                                            |                                              |                                              |
| Installation method               | Wall / Pedestal (optional)                                                                                                                                                  |                                            |                                              |                                              |
| Charging outlet                   | Type2 plug / Type2 socket (IEC 62196)                                                                                                                                       |                                            |                                              |                                              |
| Cable length                      | 6.5 m (Type P)                                                                                                                                                              |                                            |                                              |                                              |
| Operation temperature             | -30 ~ 50°C                                                                                                                                                                  |                                            |                                              |                                              |
| Storage temperature               | -40 ~ 60°C                                                                                                                                                                  |                                            |                                              |                                              |
| Operation humidity                | 5% ~ 95% RH (non-condensing)                                                                                                                                                |                                            |                                              |                                              |
| Max. operation altitude           | 2000 m                                                                                                                                                                      |                                            |                                              |                                              |
| Degree of protection              | IP65 (plug type) / IP54 (socket type)    IK10 (housing) / IK08 (screen)                                                                                                     |                                            |                                              |                                              |
| Cooling method                    | Nature cooling                                                                                                                                                              |                                            |                                              |                                              |
| Application site                  | Indoor / Outdoor                                                                                                                                                            |                                            |                                              |                                              |
| Weight                            | 5 kg for plug type                                                                                                                                                          | 3 kg for socket type<br>5 kg for plug type | 3 kg for socket type<br>6.5 kg for plug type | 3 kg for socket type<br>6.5 kg for plug type |
| Dimension (W × H × D)             | 206 × 390 × 139 mm                                                                                                                                                          |                                            |                                              |                                              |
| PROTECTION                        |                                                                                                                                                                             |                                            |                                              |                                              |
| Multiple protection               | Over/Under voltage protection, Overload protection, Shortcircuit protection, Current leakage protection, Grounding protection, Surge protection, Overtemperature protection |                                            |                                              |                                              |
| Theft protection                  | Support theft protection with a padlock                                                                                                                                     |                                            |                                              |                                              |
| Integral earth leakage protection | Integrated current failure monitoring (30 mA AC & 6 mA DC)                                                                                                                  |                                            |                                              |                                              |
| Cable protection                  | Cable lock (APP control)                                                                                                                                                    |                                            |                                              |                                              |
| Relay protection                  | Relay weld detection                                                                                                                                                        |                                            |                                              |                                              |
| Built-in PEN fault technology     | According to BS 7671:2018 requirements <sup>①</sup>                                                                                                                         |                                            |                                              |                                              |
| Standards                         | IEC 61851-1:2017, IEC 62196-2:2016                                                                                                                                          |                                            |                                              |                                              |

① Only for chargers sold in the UK region