



DC 30 kW EV Charger

Our 30 kW is a dependable and resilient DC fast charger, engineered to charge every EV model available in the market today. This robust charger ensures compatibility and efficiency across the board. Its reliability and versatility make it the go-to solution for a wide range of EV owners, offering consistent and swift charging experiences for various electric vehicle models.



Powerful Performance

- Rating: 30 KW
- Input Voltage Range: 3-Phase, 415 VAC ($\pm 10\%$), 50Hz

Output Parameters

- Voltage: 200-1000V DC
- DC Current: 100 A (max)

Output Port

- One CCS 2 Charging connector.

User- Friendly Authentication

- Seamlessly authenticate with RFID, QR Code Scan, and OCPP 1.6 base Mobile App Interface for a hassle-free charging experience.
- Offline authentication is also provided if the customer requires.

Advanced Connectivity

- Interface options include 4G (optional), Ethernet, and Wi-Fi for seamless communication.

7-Inch or bigger Touchscreen

- 7 inch Industrial grade LCD, which displayed KWh, Date & Time, Total KWh, O/P DC V & Amp, Event logs, Errors, Price per unit, total amount.

Certification

- Certified by ARAI/ICAT



| Sr. No. | Parameter | Detail | Specification |
|---------|--------------------------------------|--|--|
| | | | Model:- ST-EVDC30KW |
| 1 | AC Input | Voltage Rating | 3-Phase, 415Vac (+10 %,-10%) 360V-460 V |
| | | Max. Input Current | 50 Amp |
| | | Input Frequency | 50 Hz \pm 1.5Hz or better |
| | | Insolation | one number MCCB at input in Charger |
| | | User Authentication | RFID , QR-Code Scan, OCPP based Mobile App Interface. Interface : Ethernet, GSM - 3G/4G SIM support |
| 2 | Backup Power | Input Supply Failure backup | Battery backup for minimum 15 minute for the control system and billing unit. The data logs should be synched with CMS during backup time, in case of drain out. |
| 3 | DC Output | No. of Output Ports | 1 Nos CCS Type 2, 5 meter cable length at a height between 0.4 m to 1.5 m as per IEC 61851-23, section 101.1.3. |
| | | Output Cable | As per Applicable IEC 62196-3 standard with a voltage range up to 1000V (DC). |
| | | Power factor | > 0.98 |
| | | Current & voltage THD | Compliant with IEC 61000-3-12 |
| | | Output Current | 100 A (max) per Gun |
| | | Output Voltage | 200-1000V DC |
| | | Rated outputs and maximum output power | As per IEC 61851- 23,101.2.1.1 except for the ambient temperature range. Temp range to be -20 °C to 55 °C as per Indian climatic conditions. |
| 4 | Minimum efficiency | | 94% for load more than 50% |
| 5 | Internal Cabling | | Should be FR grade |
| 6 | Electrical metering | | to comply with IEC 62052-11 and IEC 62053-21 |
| 7 | Charge Option | | Auto Charge, Mode Selection (Time/amount/Power/SOC) |
| 8 | Splitter | Splitting of power output between two guns | NIL |
| 9 | AC Input Protections | AC Voltage Protection | AC Over-Voltage, AC Under-Voltage |
| | | AC Current Protection | AC Over Current / Short Circuit |
| | | AC Safety Protection | Residual current / Ground fault- (ELCB Required 30 ma) |
| | | Earth Monitoring | Earth Presence/Connection Monitoring |
| | | Ground Fault Protection | Ground Fault Protection |
| | | Surge Protection- 4 KV DM | Surge Protection minimum Class B SPD. SPD should have valid test report from NABL accredited Lab having facility as per IEC 61643-11/KEMA/VDE - 4KV DM |
| | | Temperature Protection | Over temperature |
| 10 | ESD | Emergency shut down button | Emergency Shut Button (ESD) |
| 11 | EMI/EMC | EMI EMC | As per IEC 61000 for complete unit |
| | | Immunity to electrostatic discharge (IEC 61000-4-2) | Immunity to electrostatic discharge (IEC 61000-4-2) |
| | | Supply Voltage Dips and Interruptions (IEC 61000-4-11) | Supply Voltage Dips and Interruptions (IEC 61000-4-11) |
| | | Fast Transient (IEC 6100-4-4) | Fast Transient (IEC 6100-4-4) |
| | | Voltage surges (IEC 61000-4-5) | Voltage surges (IEC 61000-4-5) |
| | | Radiated Electro Magnetic Disturbances | Radiated Electro Magnetic Disturbances |
| 12 | Energy Metering | Independent DC and AC Energy Meter for each output and Input and with cumulative | Independent DC and AC Energy Meter for each output and Input and with cumulative |
| 13 | Operating Temperature | Operating Temperature | -10 to 55 degC |
| 14 | Humidity | Enclosure Protection | 95% relative humidity, Non-condensing |
| 15 | Enclosure Protection | Enclosure Protection | IP55 or better |
| 16 | Cooling Method | Natural / Forced | Natural / FAN Cooling |
| 17 | Applications | To Charge | 4 wheelers compatible with CCS-2 |
| 18 | Communication between charger and EV | CCS2 : IEC 61851, PLC - DIN 70121 and ISO 15118 | CCS2 : IEC 61851, PLC - DIN 70121 and ISO 15118 |
| 19 | Altitude | | Upto 2000 m |
| 20 | Keypad | Metallic/Membrane type /Touch screen | Alpha numeric keypad with minimum 12 keys If touch screen is offered it can be integral part of display |
| 21 | Display | 7" or bigger Industrial grade LCD which displayed KWhr, Date & time, Total KWhr,O/P DC V & Amp., Event logs, Errors, Price per unit, total amount. | 7" or bigger Industrial grade LCD which displayed KWhr, Date & time, Total KWhr,O/P DC V & Amp., Event logs, Errors, Price per unit, total amount. |
| 22 | Certification | | ARAI / ICAT (or any Govt/NABL approved lab) and comply the standard from IEC 61851 |
| 23 | Memory storage | storage | To store last 1000 event logs |
| 24 | Enclosure | Metal sheet | All panels shall be CRCA sheets only. |
| 25 | Enclosure Protection | Protection against mechanical impact & stability | IK10,As per IEC 61851-1 Section 11.11.2 including charger Display |

*Due to continuous improvement technical specifications & product image can change without prior notice.