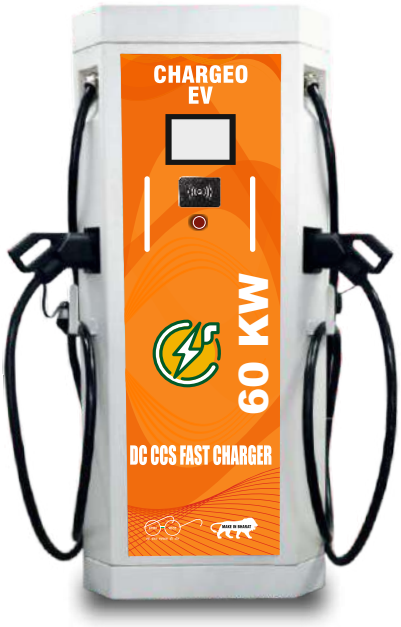
CHARGEO
EV TECH




# DC 60 kW EV Charger

Perfectly compatible with CCS-2 Connectors, our charger offers versatile charging solutions anywhere – workplaces, parking areas, hospitals, malls, hotels, museums, parks, and highways. Ensure swift and intelligent charging experiences for your electric vehicle journeys with our 60 kW DC charger.


## Powerful Performance

- Rating: 60 KW
- Input Voltage Range: 3-Phase, 415 VAC (±10%), 50Hz

## Output Parameters

- Voltage: 200-1000V DC
- DC Current: 200 A (max)
- Splitting of power output between two charging guns

## Output Port

- Dual 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, Ethernet, and Wi-Fi for seamless communication.

## 7-Inch 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

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# DC 60 kW Technical Specifications

| Sr. No. | Parameter | Detail | Specification |
|---|---|---|---|
| | | Model:- ST-EVDC60KW | |
| 1 | AC Input | Voltage Rating | 3-Phase, 415Vac (+10 %,-10%) 360V-460 V |
| | | Max. Input Current | 98 Amp |
| | | Input Frequency | 50 Hz ± 1.5Hz or better |
| | | Insolation | one number MCCB at input in Charger |
| | | User Authentication | RFID , QR-Code Scan, OCPP based Mobile App Interface<br>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, is case of drain out. |
| 3 | DC Output | No. of Output Ports | 2 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 | 200 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 | | 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 | splitter provision. |
| 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 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 electroststic discharge ( IEC 61000-4-2) | Immunity to electroststic discharge ( IEC 61000-4-2) |
| | | Supply Volatge Dips and Interruptions ( IEC 61000-4-11) | Supply Volatge Dips and Interruptions ( IEC 61000-4-11) |
| | | Fast Transient ( IEC 6100-4-4) | Fast Transient ( IEC 6100-4-4) |
| | | Volatge surges ( IEC 61000-4-5) | Volatge 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<br>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, Alarms, Errors, Price per unit, total amopunt. | 7" or bigger Industrial grade LCD which displayed KWHr, Date & time,Total KWHr, O/P DC V & Amp., Event logs, Alarms, Errors, Price per unit, total amopunt. |
| 22 | Certification | | Certification from ARAI / ICAT (or any Govt/NABL approved lab) and comply the standard from IEC 61851 |
| 23 | Memory 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.

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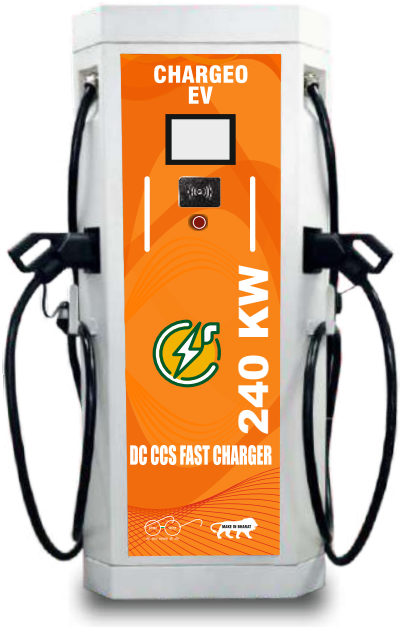
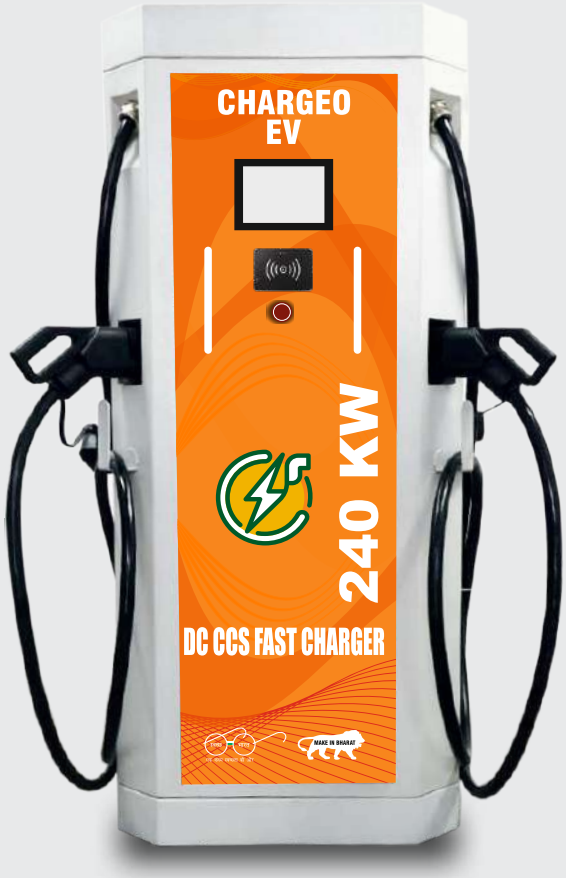



# DC 240 kW EV Charger

Our 240 kW ultrafast DC EV charger is a powerhouse charger designed for lightning-fast and efficient charging for electric vehicles. Its versatility allows placement in parking lots, highways, and charging stations, catering to diverse charging needs. With advanced security features and user-friendly interfaces, this charger ensures a seamless, reliable, and convenient charging experience, empowering EV owners for hassle-free journeys ahead.




## Powerful Performance

- Rating: 240 KW
- Input Voltage Range: 3-Phase, 415 VAC (±10%), 50Hz

## Output Parameters

- Voltage: 200-1000V DC
- DC Current: 200 A (max)
- Splitting of power output between two charging guns

## Output Port

- Dual 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, 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

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# DC 240 kW Technical Specifications

| Sr. No. | Parameter | Detail | Specification |
|---|---|---|---|
| | | Model:- ST-EVDC240KW | |
| 1 | AC Input | Voltage Rating | 3-Phase, 415Vac (+10 %,-10%) 360V-460 V |
| | | Max. Input Current | As per 240 KW @ 415 V 3 Phase |
| | | Input Frequency | 50 Hz ± 1.5Hz or better |
| | | Insolation | one number MCCB at input in Charger |
| | | User Authentication | RFID , QR-Code Scan, OCPP based Mobile App Interface<br>Interface : Ethernet, GSM - 3G/4G SIM support |
| 2 | Backup Power | Input Supply Failure backup ( Optional ) | Battery backup for minimum 15 minute for the control system and billing unit. The data logs should be synched with CMS during backup time, is case of drain out. |
| 3 | DC Output | No. of Output Ports | 2 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 | 200 per Gun as per Customer Requirments |
| | | Output Current ( Optional ) | 250 per Gun as per Customer Requirments |
| | | 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 | 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 | splitter provision. |
| 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 - 4 KV 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 electroststic discharge ( IEC 61000-4-2) | Immunity to electroststic discharge ( IEC 61000-4-2) |
| | | Supply Volatge Dips and Interruptions ( IEC 61000-4-11) | Supply Volatge Dips and Interruptions ( IEC 61000-4-11) |
| | | Fast Transient ( IEC 6100-4-4) | Fast Transient ( IEC 6100-4-4) |
| | | Volatge surges ( IEC 61000-4-5) | Volatge 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 | IP54 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<br>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, Alarms, Errors, Price per unit, total amopunt. | 7" or bigger Industrial grade LCD which displayed KWHr, Date & time,Total KWHr, O/P DC V & Amp., Event logs, Alarms, Errors, Price per unit, total amopunt. |
| 22 | Certification | Certification from ARAI / ICAT (or any Govt/NABL approved lab) and comply the standard from IEC 61851 | |
| 23 | Memory 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 |

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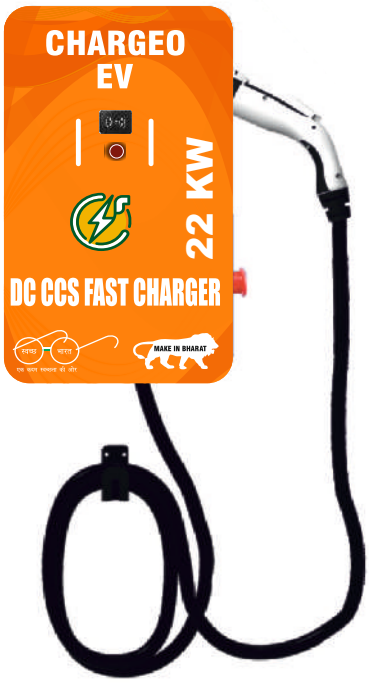
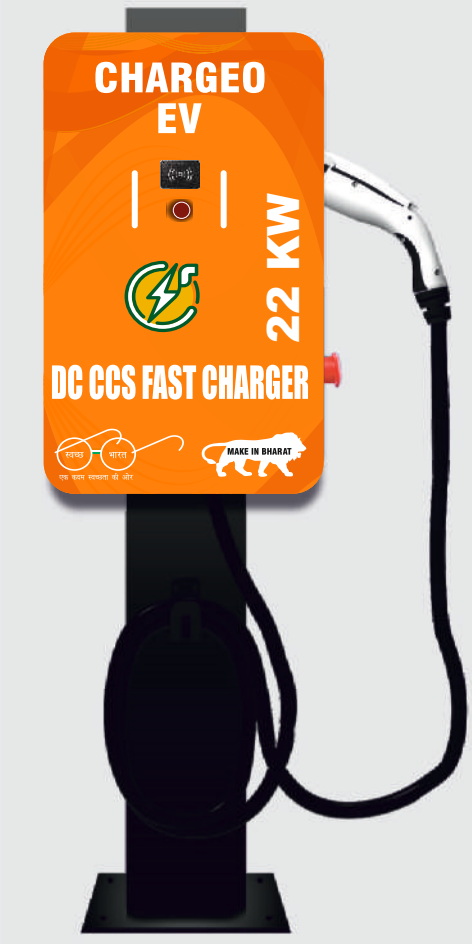



# AC 22 kW EV Charger

Our 22 kW AC Charger is a powerhouse for efficient electric vehicle charging With exceptional power output, this charger revolutionizes the charging experience. This charger suits residential, offering reliable charging. Experienc convenient charging with the 22 kW AC Charger, and enjoy hassle free rides.




## Powerful Performance

- Rating: 22 KW
- Input Voltage Range: 3-Phase, 415 VAC (±10%), 50Hz

## Output Port

- One IEC 62196 Type 2 output connector with an Output rating of 32 amp and 415V AC.

## 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.

## Intuitive 4.3 TFT LCD with touch display system

- Display with adequate resolution and size for visibility in day and night at a distance of 1 meter with naked eyes.

## Certification

- Certified by ARAI/NABL

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# AC 22 kW Technical Specifications

| | | Detail | Specification |
|---|---|---|---|
| | | Model:- ST-EVAC22KW | |
| 1 | Input Power | Rated Power | 22KW |
| | | Input Voltage | 3L + N + PE, 415V AC +- 10% , 50Hz (Three phase) |
| 2 | AC Output | Number of output | one type 2 Gun |
| | | Output current | 32A / Phase |
| | | Output charging outlet | Type 2, IEC 62196 |
| | | Output voltage | 3L + N + PE, 415V AC |
| 3 | User interface and control function | Battery Backup | 15 Min (for Billing) optional |
| | | DISPLAY | 4.3 TFT LCD with touch |
| | | Status Indicator | LED |
| | | Push button | Emergency Stop |
| | | User authentication | QR CODE + RFID +OCPP1.6 |
| 4 | Communication | External | WIFI+ Ethernate OCPP1.6 |
| | | | 4G(optional) |
| | | Metering and billing | Grid Responsive metering - QR code scan/RFID card/APP server based online Payment |
| | | Charging options | Swipe card/Scan Code/ App based authentication |
| 5 | Environment | Ambient temperature | -20 to 55°C |
| | | Storage temperature | -20 to 70 deg C' |
| | | Operatioinal Temp | -20 to 60 deg C |
| | | Altitude | <2000Mtr. |
| | | Humidity | <95% Non condensing |
| 6 | Protection | Input/Output protection | Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection Grounding protection, Surge protection, Over/Under temperature protection (”protections are optional and based on user requirements) |
| | | Mechanical protection | IP55 |
| | | Cooling | Natural cooling |
| 7 | Regulation | As per | IEC 61851-1:2017, IEC 61851-21-2 |
| | | Certificate | ARAI certified/ NABL |
| | | Optional Accessories Optional | Mounting Column / Plate |
| | | Mounting Type | Wall mount / Pole mount |

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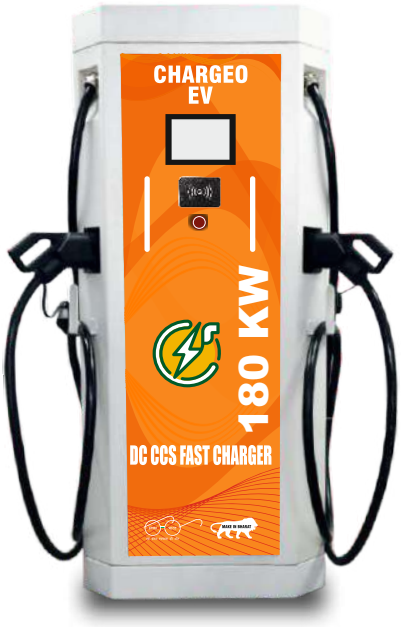
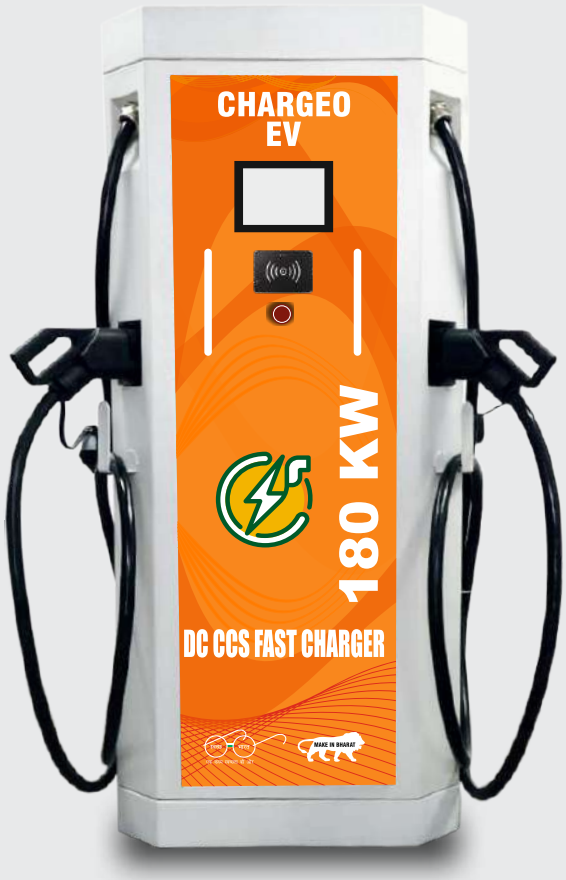



# DC 180 kW EV Charger

Our 180 kW ultrafast DC EV charger is a powerhouse charger designed for lightning-fast and efficient charging for electric vehicles. Its versatility allows placement in parking lots, highways, and charging stations, catering to diverse charging needs. With advanced security features and user-friendly interfaces, this charger ensures a seamless, reliable, and convenient charging experience, empowering EV owners for hassle-free journeys ahead.




## Powerful Performance

- Rating: 180 KW
- Input Voltage Range: 3-Phase, 415 VAC (±10%), 50Hz

## Output Parameters

- Voltage: 200-1000V DC
- DC Current: 200 A (max)
- Splitting of power output between two charging guns

## Output Port

- Dual 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, 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

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# DC 180 kW Technical Specifications

| Sr. No. | Parameter | Detail | Specification |
|---|---|---|---|
| | | Model:- ST-EVDC180KW | |
| 1 | AC Input | Voltage Rating | 3-Phase, 415Vac (+10 %,-10%) 360V-460 V |
| | | Max. Input Current | As per 180 KW @ 415 V 3 Phase |
| | | Input Frequency | 50 Hz ± 1.5Hz or better |
| | | Insolation | one number MCCB at input in Charger |
| | | User Authentication | RFID , QR-Code Scan, OCPP based Mobile App Interface<br>Interface : Ethernet, GSM - 3G/4G SIM support |
| 2 | Backup Power | Input Supply Failure backup ( Optional ) | Battery backup for minimum 15 minute for the control system and billing unit. The data logs should be synched with CMS during backup time, is case of drain out. |
| 3 | DC Output | No. of Output Ports | 2 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 | 200 per Gun as per Customer Requirments |
| | | Output Current ( Optional ) | 250 per Gun as per Customer Requirments |
| | | 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 | 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 | splitter provision. |
| 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 - 4 KV 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 electroststic discharge ( IEC 61000-4-2) | Immunity to electroststic discharge ( IEC 61000-4-2) |
| | | Supply Volatge Dips and Interruptions ( IEC 61000-4-11) | Supply Volatge Dips and Interruptions ( IEC 61000-4-11) |
| | | Fast Transient ( IEC 6100-4-4) | Fast Transient ( IEC 6100-4-4) |
| | | Volatge surges ( IEC 61000-4-5) | Volatge 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 | IP54 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<br>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, Alarms, Errors, Price per unit, total amopunt. | 7" or bigger Industrial grade LCD which displayed KWHr, Date & time,Total KWHr, O/P DC V & Amp., Event logs, Alarms, Errors, Price per unit, total amopunt. |
| 22 | Certification | Certification from ARAI / ICAT (or any Govt/NABL approved lab) and comply the standard from IEC 61851 | |
| 23 | Memory 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 |

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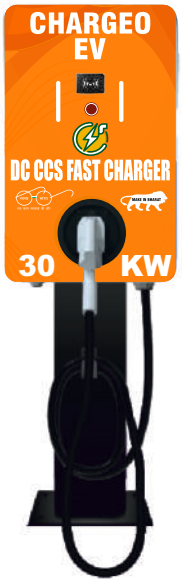
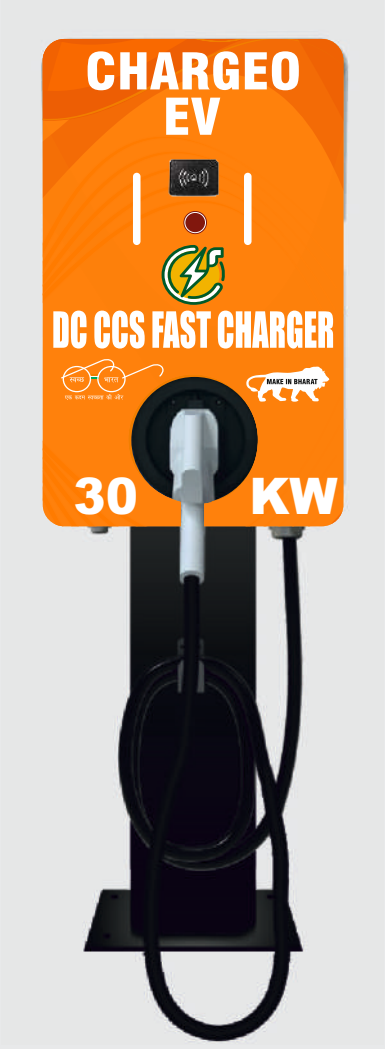



## DC 30 kW EV Charger

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 (±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

CHARGEO
EV TECH

# DC 30 kW Technical Specifications

| 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 ± 1.5Hz or better |
| | | Insolation | one number MCCB at input in Charger |
| | | User Authentication | RFID , QR-Code Scan, OCPP based Mobile App Interface.<br>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, is 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 electroststic discharge ( IEC 61000-4-2) | Immunity to electroststic discharge ( IEC 61000-4-2) |
| | | Supply Volatge Dips and Interruptions ( IEC 61000-4-11) | Supply Volatge Dips and Interruptions ( IEC 61000-4-11) |
| | | Fast Transient ( IEC 6100-4-4) | Fast Transient ( IEC 6100-4-4) |
| | | Volatge surges ( IEC 61000-4-5) | Volatge 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<br>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.

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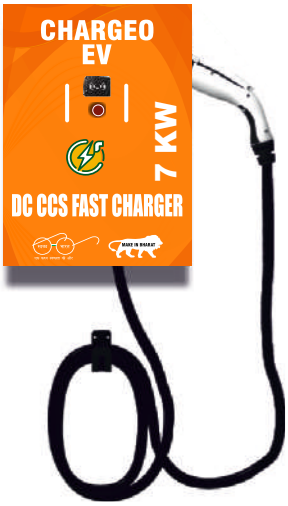
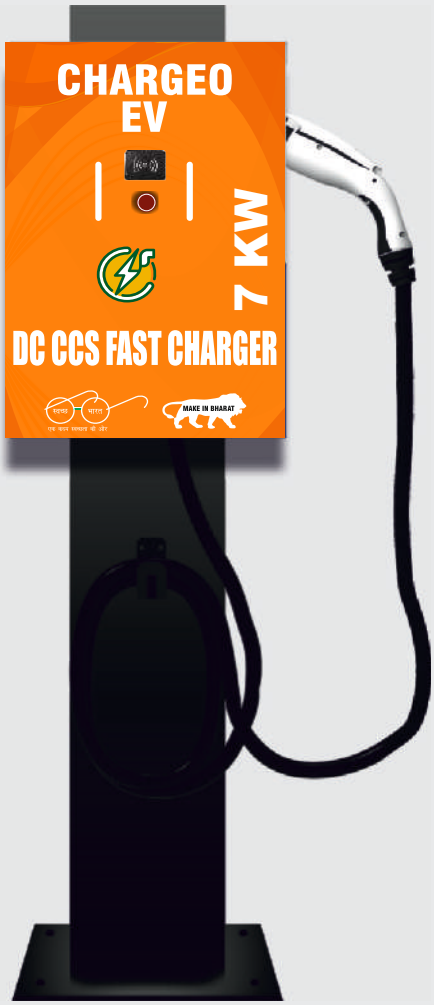



# AC 7.4 kW EV Charger

Designed to meet the unique charging needs of different users, our 7.4 kW AC charger ensures an excellent charging experience. This robust device offers efficient charging while maintaining convenience and adaptability. It is ideal for residential use and ensures that you are ready to hit the road with confidence.




## Powerful Performance

- Rating: 7.4 KW
- Input Voltage Range: 1-Phase, 230 VAC (±10%), 50Hz
- Maximum Input Current: 16A

## Output Port

- One IEC 62196 Type 2 output connector with an output rating of 32 Amp and 230V AC

## User- Friendly Authentication

- Seamlessly authenticate with RFID, QR Code Scan, and OCPP 1.6 based Mobile App Interface for a hassle –free charging experience.
- Offline authentication through mobile application (without internet) is also provided if the customer requires.

## Advanced Connectivity

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

## Intuitive 4X20 Display System

- Display with adequate resolution and size for visibility in day and night at a distance of 1 meter with naked eyes.

## Certification

- Certified by ARAI

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# AC 7.2 kW Technical Specifications

| Sr. No. | Parameter | Detail | Specification |
|---|---|---|---|
| | | Model:- ST-EVAC7.4KW | |
| 1 | Input Power | Rated Power | 7.4 KW |
| | | Input Voltage | 230V AC +- 10% , 50Hz (single phase) |
| 2 | AC Output | Number of output | one type 2 Gun |
| | | Output current | 32A Max |
| | | Output charging outlet | Type 2, IEC 62196 |
| | | Output voltage | 230V AC |
| 3 | User interface and control function | Battery Backup ( Optional ) | 15 Min (for Billing) Optional |
| | | DISPLAY | 4X20 |
| | | Status Indicator | LED |
| | | Push button | Emergency Stop |
| | | User authentication | QR CODE + RFID +OCPP1.6 |
| 5 | Communication | External | WIFI+ Ethernet + OCPP1.6 |
| | | | 4G(optional) |
| | | Metering and billing | Grid Responsive metering - QR code scan/RFID card/APP server based online Payment |
| | | Charging options | Swipe card/Scan Code/ App based authentication |
| 4 | Environment | Ambient temperature | _20 to 55°C |
| | | Storage temperature | _20 to 70 deg C' |
| | | Operatioinal Temp | _20 to 60 deg C |
| | | Altitude | <2000Mtr. |
| | | Humidity | <95% Non condensing |
| 6 | Protection | Input/Output protection | Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection Grounding protection, Surge protection, Over/Under temperature protection (”protections are optional and based on user requirements) |
| | | Mechanical protection | IP55 |
| | | Cooling | Natural cooling |
| 7 | Regulation | As per | IEC 61851-1:2017, IEC 61851-21-2 |
| | | Certificate | ARAI certified |
| | | Optional Accessories Optional | Mounting Column / Plate |
| | | Mounting Type | Wall mount / Pole mount |

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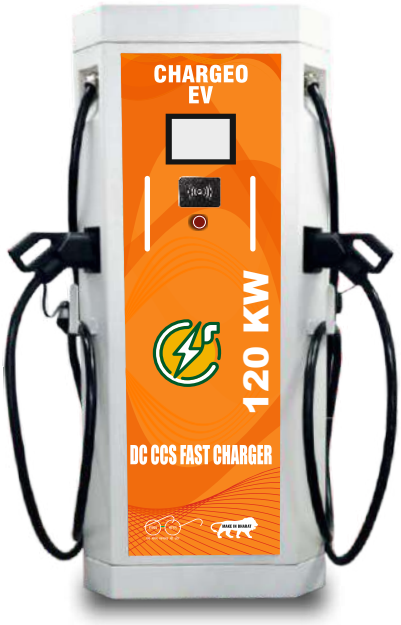
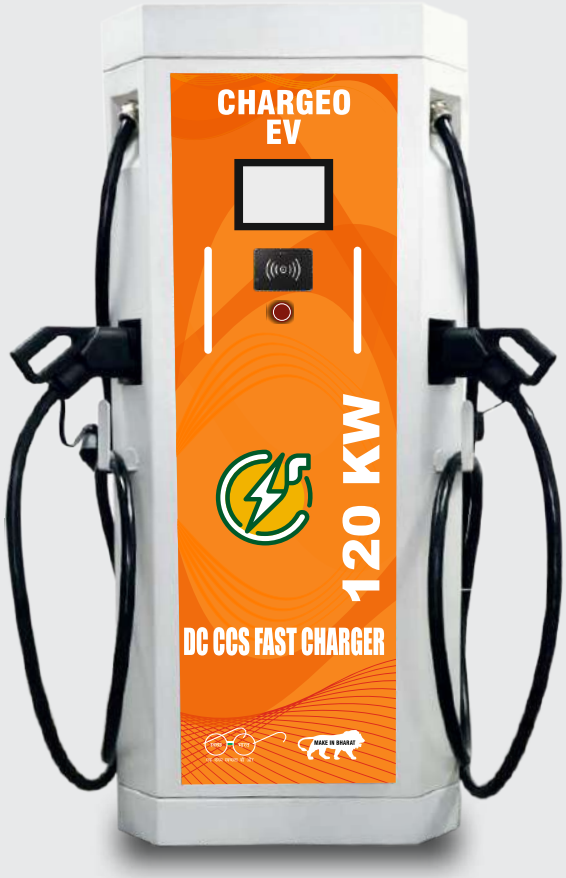



## DC 120 kW EV Charger

Our 120 kW DC EV Fast Charger is engineered to deliver high-speed charging, catering to the demands of modern electric vehicles, ensuring shorter charging times and longer journeys. It is an ideal solution for parking lots, highways, and charging stations. Equipped with advanced security features and user-friendly interfaces, this charger offers a seamless and reliable charging experience, empowering EV owners with swift power for their journeys ahead.




### Powerful Performance

- Rating: 120 KW
- Input Voltage Range: 3-Phase, 415 VAC (±10%), 50Hz

### Output Parameters

- Voltage: 200-1000V DC
- DC Current: 200 A (max)
- Splitting of power output between two charging guns

### Output Port

- Dual 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, 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

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# DC 120 kW Technical Specifications

| Sr. No. | Parameter | Detail | Specification |
|---|---|---|---|
| | | Model:- ST-EVDC120KW | |
| 1 | AC Input | Voltage Rating | 3-Phase, 415Vac (+10 %,-10%) 360V-460 V |
| | | Max. Input Current | 200 A, +-5% |
| | | Input Frequency | 50 Hz ± 3 Hz or better |
| | | Insolation | one number MCCB at input in Charger |
| | | User Authentication | RFID,QR-Code Scan, OCPP based Mobile App Interface<br>Interface : Ethernet, GSM - 3G/4G SIM support |
| 2 | Backup Power | Input Supply Failure backup (optional ) | Battery backup for minimum 15 minute for the control system and billing unit. The data logs should be synched with CMS during backup time, is case of drain out. |
| 3 | DC Output | No. of Output Ports | 2 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 | 200 A (max) per Gun |
| | | Output Voltage | 200-1000 V DC |
| 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 | Unit shall have a splitter provision. |
| 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 - 4 KV 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 electroststic discharge ( IEC 61000-4-2) | Immunity to electroststic discharge ( IEC 61000-4-2) |
| | | Supply Volatge Dips and Interruptions ( IEC 61000-4-11) | Supply Volatge Dips and Interruptions ( IEC 61000-4-11) |
| | | Fast Transient ( IEC 6100-4-4) | Fast Transient ( IEC 6100-4-4) |
| | | Volatge surges ( IEC 61000-4-5) | Volatge 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 | IP54 or better |
| 16 | Cooling Method | Natural / Forced | Force 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<br>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, Alarms, Errors, Price per unit, total amopunt. | 7" or bigger Industrial grade LCD which displayed KWHr, Date & time,Total KWHr, O/P DC V & Amp., Event logs, Alarms, Errors, Price per unit, total amopunt. |
| 22 | Certification | Certification from ARAI / ICAT (or any Govt/NABL approved lab) and comply the standard from IEC 61851 | |
| 23 | Memory 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 |

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