

## ⚡ DC 60kW 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 ( $\pm 10\%$ ), 50Hz

### Output Parameters

- Voltage: 150-1000V DC
- DC Current: 200 A (max)
- Splitting of power output between two charging guns

### 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/5G, 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



## DC 60kW Technical Specifications

| Sr. No. | Parameter                            | Detail                                                                                                                                                      | Specification                                                                                                                                                                  |
|---------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                                      |                                                                                                                                                             | Model: EVNDC60kW                                                                                                                                                               |
| 1       | AC Input                             | Voltage Rating                                                                                                                                              | 3-Phase, 415Vac (+10 %,-10%) 360V-460 V                                                                                                                                        |
|         |                                      | Max. Input Current                                                                                                                                          | 98 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<br>Interface : Ethernet, GSM - 3G/4G/5G SIM support, support CMS based Mobile Interface, Auto Change through Vehicle MAC ID |
| 2       | Backup Power                         | Input Supply Failure backup                                                                                                                                 | Battery backup for minimum $\geq$ 45minute 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                                                                                                                                         | 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                                                                                                                                              | 150-1000V 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                   | As per Schedule 41                                                                                                                                          | >97%                                                                                                                                                                           |
| 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 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<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 amount. | 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 amount.                    |
| 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.