



**SKY LIVE ENERGY**

**TAKING EV CHARGING  
TO THE NEXT LEVEL !**

**DC & AC CHARGER RANGE**





## Easy Compatible Chargers



2 Wheelers



E-Rickshaw



3 Wheelers

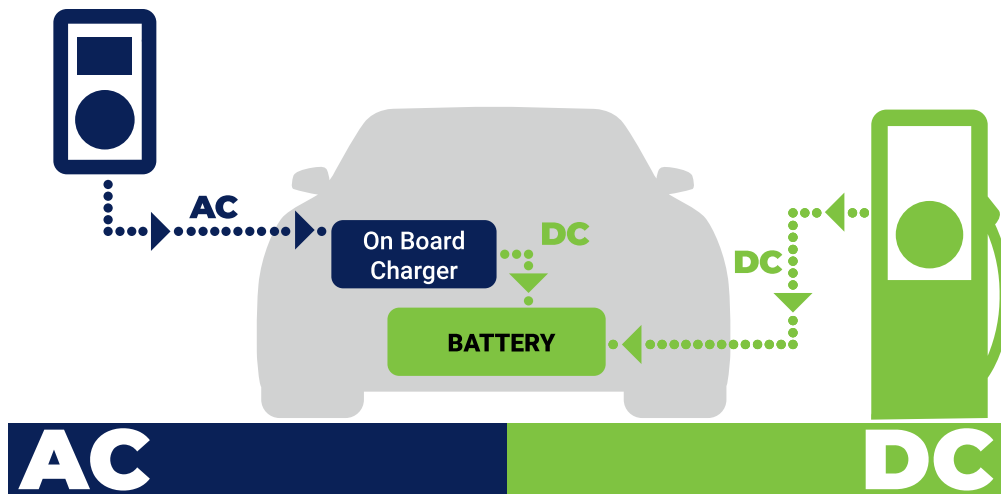


4 Wheelers



Buses

## All-EV-Friendly Charging Solutions



### AC Charging

All electric vehicles include inbuilt chargers that can convert current before supplying it to the battery. Because they are less expensive to make, install, and run, AC chargers are more ubiquitous in the EV ecosystem.

### DC Charging

The converter for a DC charger is included inside the charger itself. That means it can supply power straight to the vehicle's battery, bypassing the onboard charger. When it comes to EVs, DC chargers are bigger, faster, and an amazing development.





## Which EV Charger to go for?

Configure your EV needs to different charger specifications:

EV CHARGER TYPE					
Locations	AC001, 3.3kW-7.2kW	11kW - 22AC	15kW - 30kW DC	50/60 kW DC	100 kW - 240 kW DC
Residential	●				
Work Place	●	●	●		
Commercial (Parking, Hospitals, Malls)	●	●	●	●	
Leisure (Hotels, Museum, Parks)	●	●	●	●	
Highways	●	●	●	●	●







## AC Chargers Features

- Smart charging solution – takes care of grid load and varying charging demand
- Supports IEC60309 & IEC 62196 standard connectors
- User-friendly app for EV owners to monitor charging and billing information
- Able to manage power loads, keeping it in sync with the charging load
- Grid responsive metering and billing

## Benefits

- Compact Design
- Charging Interface Support
- User Authorization
- Easy Installation

## Application

- Commercial
- Parking
- Residential
- Fleet

## DC Chargers Features

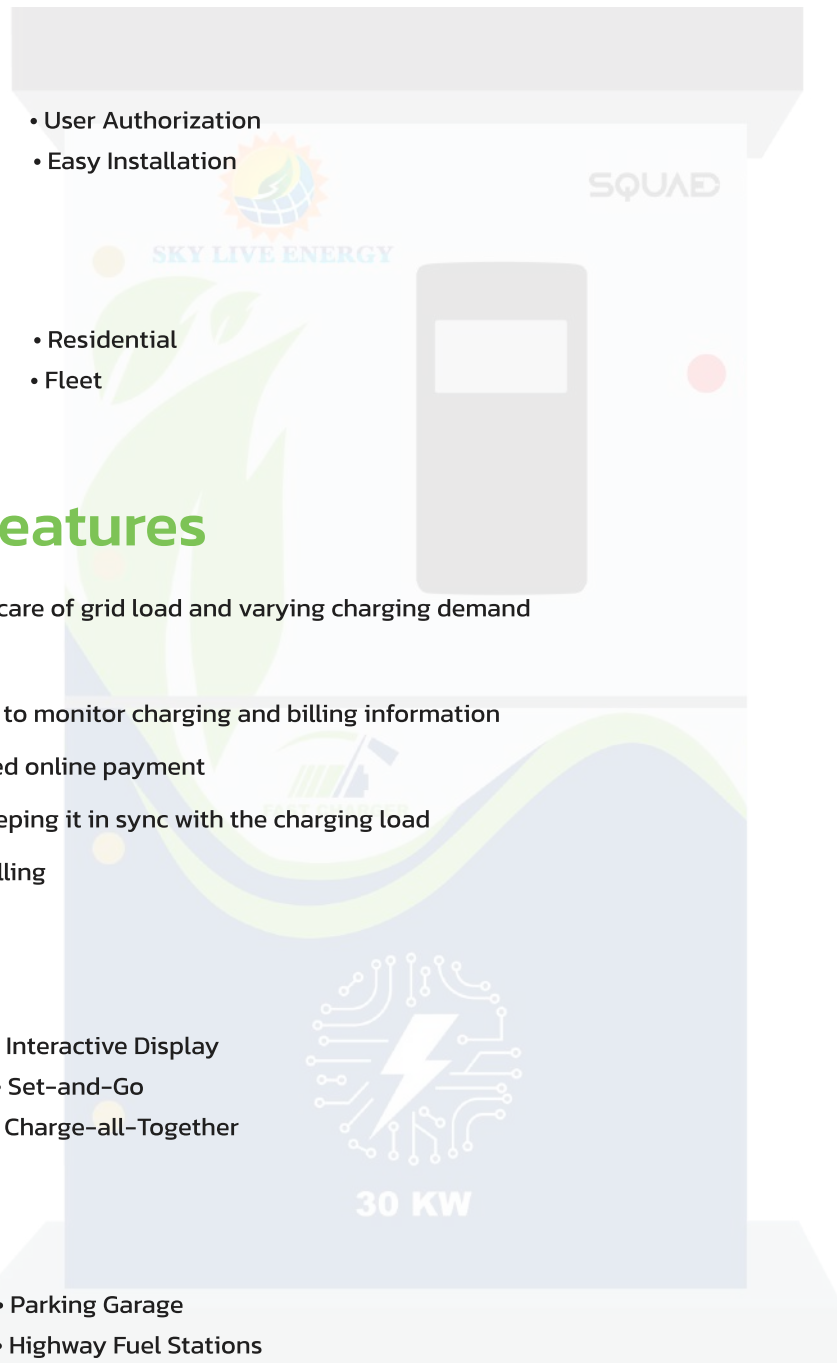
- Smart charging solution – takes care of grid load and varying charging demand
- Supports CCS-2 connector
- User-friendly app for EV owners to monitor charging and billing information
- Smart card, QR/App Server-based online payment
- Able to manage power loads, keeping it in sync with the charging load
- Grid responsive metering and billing

## Benefits

- Interoperability
- Fast Charging
- Connectivity
- Interactive Display
- Set-and-Go
- Charge-all-Together

## Application

- EV Bus Station
- Commercial Operators
- Parking
- Parking Garage
- Highway Fuel Stations
- Fleet





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## AC Chargers

SKY LIVE ENERGY AC EV Charger enables connectivity with the vehicle control system and to assure the vehicle's and crew's safety. Furthermore, depending on how busy the grid is, the charger informs the car of the maximum current it can draw at that time. So that the network is not overburdened, the AC charging station regulates charging based on the current capabilities of the house or charging point.



### 3.3 kW Charger

- Compatible with 2/3 wheelers
- User authentication via WiFi/GSM/OCPP1.6
- Input voltage: 230 VAC, 50Hz
- Single Phase



### 7.2 kW Charger

- Compatible with 4 wheelers
- User authentication through WiFi/GSM/OCPP1.6/RFID
- Input voltage: 230 VAC, 50Hz
- Single Phase



### 10 kW AC 001 Charger

- Supports BEVC-AC001 Specifications
- Compatible with 2/3 wheelers
- User authentication via WiFi/GSM/OCPP1.6/RFID/Ethernet
- Input voltage: 415 VAC, 50Hz
- Three Phase





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## AC Chargers



### 11 kW Charger

- Compatible with 4 wheelers
- User authentication via WiFi/GSM/OCPP1.6/RFID/Ethernet
- Input voltage: 415 VAC, 50Hz
- Three Phase

### 14 kW Hybrid Charger

- Compatible with 4 wheelers
- User authentication via WiFi/GSM/OCPP1.6/RFID/Ethernet
- Input voltage: 415 VAC, 50Hz
- Three Phase



### 22 kW Charger

- Compatible with 4 wheelers
- User authentication via WiFi/GSM/OCPP1.6/RFID/Ethernet
- Input voltage: 415 VAC, 50Hz
- Three Phase





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# AC Chargers – Technical Specs

Parameters	Details	3.3 KW	3.3 KW	7 KW	7 KW	10KW	14 KW	14 KW	22 KW	
		Without HMI	WITH HMI	Without HMI	WITH HMI	WITH HMI	Model 1	Model 2	WITH HMI	
Input Power	Rated Power	3.3 KW	3.3 KW	Type 2: 7.2kw	Type 2: 7.2kw	10 KW (3 No. Industrial Socket 3.3 KW)	Hybrid 14 KW (1 No. Domestic Socket -3.3 KW, 2. 1 No. Industrial Socket 3.3 KW, 3. 1 No. type 2 Gun Sungle Phase)	Hybrid 14 KW (1 No. Domestic Socket -3.3 KW, 2. 1 No. Industrial Socket 3.3 KW, 3. 1 No. type 2 Gun Sungle Phase)	Type 2: 22kw	
	Input Voltage	230 V +/- 10%	230 V +/- 10%	7.2 KW -230V AC single phase	7.2 KW -230V AC single phase	10 KW Three phase -415V (+6% and -10%) a	14 KW Three phase	14 KW Three phase	22KW Three Phase 3L + N + PE, 415V AC +/- 10%, 50Hz (Three phase)	
Output Power	Number of output	One	One	one type -2 Gun	one type 2 Gun	3 No. Industrial Socket 3.3 KW	1 No. Domestic Socket -3.3 KW, 2. 1 No. Industrial Socket 3.3 KW, 3. 1 No. type 2 Gun	1 No. Domestic Socket -3.3 KW, 2. 1 No. Industrial Socket 3.3 KW, 3. 1 No. type 2 Gun	one type 2 Gun	
	Output current range	0-16 A for 3.3KW	0-16 A for 3.3KW	0-16 A for 3.3kw, 0-32A for 7.2 kw per phase, 0-16 Amp per phase		0-16 Amp per phase				
	Output charging outlet	Domestic 5 Pin Socket	Industrial IEC 60309	IEC 60309 or Type 2 IEC 62196						Type 2 IEC 62196
	Output voltage	230 V AC	230 VAC	230V AC/415 V AC		230V (+6% and -10%) single phase			Three Phase 3L + N + PE, 415V AC +/- 10%, 50Hz (Three phase)	
Battery Backup	For Billing ( optional )	15 Min	15 Min	15 Min	15 Min	15 Min ( for Billing ) Optional	15 Min	15 Min	15 Min	
User interface and control function	DISPLAY	NIL	4.3 TFT LCD with touch	NIL	4.3 TFT LCD with touch	4.3 TFT LCD with touch	2.3 Inch LCD	4.3 TFT LCD with touch	4.3 TFT LCD with touch	
	Status Indicator	LED Light	LED Light	Provided	Provided	Provided	Provided	Provided	Provided	
	Push button	Yes	Yes	Emergency Stop		Provided			Emergency Stop	
	User authentication	QR Code +OCPP 1.6	QR code + RFID +OCPP1.6	QR CODE + RFID +OCPP1.6	QR CODE + RFID +OCPP1.6	QR CODE /RFID + OCPP1.6v	QR CODE /RFID + OCPP1.6v	QR CODE /RFID + OCPP1.6v	QR CODE /RFID + OCPP1.6v	
Environment	Ambient temperature	-30 to 55 deg C								
	Storage temperature	-30 to 70 deg C								
	Operational Temp	-30 to 60 deg C								
	Altitude	< 2000 meters								
	Humidity	upto 95% Non Condensing								
Communication	External ( GSM - Optional )	WiFi +4G +LAN +OCPP1.6v	WiFi +4G +LAN +OCPP1.6v	WiFi +4G +LAN +OCPP1.6v	WiFi +4G +LAN +OCPP1.6v	WiFi +4G (optional) +OCPP1.6v	WiFi +4G +LAN +OCPP1.6v	WiFi +4G +LAN +OCPP1.6v	WiFi +4G +LAN +OCPP1.6v	
	Meeting and billing	Wifi/ GSM with SIM APP server based online Payment, with OCPP based authentication	Grid Responsive metering - QR code scan/RFID card/APP server based online Payment	Grid Responsive metering - QR code scan/RFID card/APP server based online Payment		Grid Responsive metering - QR code scan/RFID card/APP server based online Payment	Grid Responsive metering - QR code scan/RFID card/APP server based online Payment		Grid Responsive metering - QR code scan/RFID card/APP server based online Payment	
	Charging operation	Scan Code/ App APP based authentication	RFID /Scan Code/ App APP based authentication	RFID /Scan Code/ App APP based authentication		Swipe card/Scan Code APP based authentication	RFID /Scan Code/ App APP based authentication		RFID /Scan Code/ App APP based authentication	
Protection	Input/Output protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection Grounding protection, Surge protection, Over/Under temperature protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection Grounding protection, Surge protection, Over/Under temperature 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)		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)			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	IP 54								
	Cooling	Natural Cooling								
Regulation	As per	IEC 61851-1:201	IEC 61851-1:201	IEC 61851-1:2017, IEC 61851-21-2						
	Safety Certificate	CE								
	Optional Accessories	ARAI/NABL								
	Optional Mounting	Mounting Column / Pillar								
	Mounting	Wall / Pole Mounted								

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## DC Chargers

SKY LIVE ENERGY DC chargers are capable of providing DC power to the car right away. The vehicle does not need to convert DC EV charging to AC. Because this method eliminates a stage, it can charge an electric vehicle considerably more quickly. Some of the fastest DC chargers can fully charge a vehicle in less than an hour.

### DC Charging Station

15kW | 20kW

- Charging Gun as per CCS 2 Standard.
- 1 Output for Charging Port
- Input Voltage- 3 Phase
- User Authentication- RFID/ QR Code Scan/ OCPP 1.6 J
- Network Connection- 4G Module/Wifi/ Ethernet



### DC Charging Station

30kW

- Charging Gun as per CCS 2 Standard.
- 1-2 Output for Charging Port
- Input Voltage- 3 Phase
- User Authentication- RFID/ QR Code Scan/ OCPP 1.6 J
- Connectivity- GSM / Ethernet / WiFi



### DC Charging Station

30kW

- Charging Gun as per CCS 2 Standard.
- 1 Output for Charging Port
- Input Voltage- 3 Phase
- User Authentication- RFID/ QR Code Scan/ OCPP 1.6 J
- Connectivity- GSM / Ethernet / WiFi







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# DC Chargers - Technical Specs

Parameters	Detail	15/20kW	30kW (Model-I)	30kW (Model-II)	
AC Input	Voltage Rating	3-Phase, 265-475Vac (+10 %,-10%)	3-Phase, 415Vac (+10 %,-10%)		
	Max. Input Current	40A	50 Amp (30 KW)		
	Input Frequency	45-66 Hz	50 Hz ± 1.5Hz or better		
	Current THD	<=5%(50% to 100% load)			
	User Authentication		RFID		
			QR-Code Scan		
			Password		
		OCPP1.6 or better based Mobile App Interface Optional			
Charger interface	Interfacing to App	Ethernet, 3G/4G, Wifi,			
Backup Power- Optional	Input Supply Failure backup for billing unit	-	Battery backup for minimum 15 minute for the control system and billing unit.		
DC Output	No. of Output Ports	1 Nos . CCS Type 2, 5 meter cable length			
	Output Cable	As per Applicable AIS standard			
	Output Current per gun	100 Amp			
	Power factor	> 0.98			
	Output Voltage	200-750 V DC			
Minimum efficient		92%			
Electrical metering		to comply with IEC 62052-11 and IEC 62053-21			
AC Input Protections	AC Voltage Protection	AC Over-Voltage, AC Under-Voltage			
	AC Current Protection	AC Over Current / Short Circuit			
	AC Safety Protections		Residual current / Ground fault		
			Earth Presence/Connection Monitoring		
			Surge Protection 4kV DM		
			Lightning Protection		
			Reverse Battery Conncoction		
	Over temperature				
Charging Mode	IEC 61851-1	IEC 61851-1			
Charger and Vehicle Communication	Power Line Communication (PLC)		Power Line Communication (PLC)		
ESD	Emergency shut down button	Emergency Shut Button (ESD)			
Energy Metering	Independent AC Energy Meter for each output and cummulative	Independent AC Energy Meter for each output and cummulative			
Operating Temperature	Operating Temperature	-10 to 55 degC			
Humidity	Enclosure Protection	95% relative humidity, Non-condensing			
Enclosure Protection	Enclosure Protection	IP54 or better			
Cooling Method	Natural / Forced	Natural / FAN Cooling			
Applications	To Charge	4 wheelers compatible with CCS-2			
Altitude		Upto 2000 m			
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			
Display	LCD or equivalent screen The following shall be displayed a.KWhr consumed while charging b.Date and time in DD/MM/YYYY, HH:MM c.Total KWHr consumed ( Totaliser) - On selection thru key pad d.Output DCV and Amp while charging e.Event logs- On selection basis thru keypad f.Alarms g.All error logs on selection basis on selection basis	4.3 Inch, Color Touch Screen	10 inch LCD or equivalent screen The following shall be displayed a.KWhr consumed while charging b.Date and time in DD/MM/YYYY, HH:MM c.Total KWHr consumed ( Totaliser) - On selection thru key pad d.Output DCV and Amp while charging e.Event logs- On selection basis thru keypad f.Alarms g.All error logs on selection basis on selection basis	4.3 Inch , Optional -7inch LCD The following shall be displayed a.KWhr consumed while charging b.Date and time in DD/MM/YYYY, HH:MM c.Total KWHr consumed ( Totaliser) - On selection thru key pad d.Output DCV and Amp while charging e.Event logs- On selection basis thru keypad f.Alarms g.All error logs on selection basis on selection basis h. Price per unit f. Total amount ,incremented during charging	
CEA compliance	Chargers to comly with CEA guidelines	Chargers to comly with CEA guidelines			
Memory storage		To store last 50 event logs			
		To store last 50 charging transactions			
		To have memory of storing price of charging per unit with in the unit			
		To store total charging units ( cumulative in KWHr) Charging unit shall be able to take price per unit and billing information			
Enclosure	Metal sheet	Metal Sheet			
Enclosure Protection	Protection against mechanical impact	IK10			
	Weight	35-45KG	65 Kg	62 Kg	
	Certification	ARAI /ARAI, IEC 61851			
Dimension	Product	545X380X170MM	459*236*734mm	650*160*550mm	

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





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## DC Charging Station



### 60kW | 120kW

- Charging Gun as per CCS 2 Standard.
- 2 Output for Charging Port
- Input Voltage- 3 Phase
- User Authentication- RFID/  
QR Code Scan/ OCPP 1.6 J
- Connectivity- GSM / Ethernet / WiFi





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## DC Charging Station



**180kW | 240kW**

- Charging Gun as per CCS 2 Standard.
- 2 Output for Charging Port
- Input Voltage- 3 Phase
- User Authentication- RFID/  
QR Code Scan/ OCPP 1.6 J
- Network Connection- 4G Module/  
Wifi/ Ethernet





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# DC Charging Station



## 360kW

- Charging Gun as per CCS 2 Standard.
- 2 Output for Charging Port
- Input Voltage- 3 Phase
- User Authentication- RFID/  
QR Code Scan/ OCPP 1.6 J
- Connectivity- GSM / Ethernet / WiFi







# DC Charging Station - Technical Specs

Parameters	Details	Specifications 50-60kW	Specifications 120 kW	Specifications 240kW	Specifications 360kW
AC Input	Voltage Rating	3-Phase, 415Vac (+10 %,-10%) 360V-460 V			
	Max. Input Current	150 Amp	200 A, +-5%	As per 240 KW @ 415 V 3 Phase	660 A, +-5%
	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 Any future upgradation (latest version of OCPP or any other upgraded protocol) till the completion of CAMC period, vendor would upgrade the same at no extra cost to OMCs.			
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.			
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). Connector must fulfill IATF 16949 automotive standard and ISO 9001. It is to be tested by ARAI at Indian atmospheric condition or at an ambient temperature of 50 deg which ever is higher.			
	Power factor	> 0.98			
	Current & voltage THD	Compliant with IEC 61000-3-12			
	Output Current	200 A (max) per Gun	250 A (max) per Gun	300 A (max) per Gun	400 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.				
Minimum efficiency	94% for load more than 50%				
Internal Cabling	Should be FR grade				
Electrical metering	to comply with IEC 62052-11 and IEC 62053-21				
Charge Option	Auto Charge, Mode Selection (Time/amount/Power/SOC)				
Splitter	Splitting of power output between two guns	Unit shall have a splitter provision so When One gun is connected, then it shall be able to dispense maximum charger capacity and when both CCS2 charger connectors/guns are in parallel operation, the charger will share the power between both the connectors.			
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			
ESD	Temperature Protection	Over temperature			
		Emergency Shut Button (ESD)			
EMI/EMC		As per IEC 61000 for complete unit			
		Immunity to electrostatic discharge ( IEC 61000-4-2)			
		Supply Voltage Dips and Interruptions ( IEC 61000-4-11)			
		Fast Transient ( IEC 6100-4-4)			
		Voltage surges ( IEC 61000-4-5)			
		Radiated Electro Magnetic Disturbances			
Energy Metering		Independent DC and AC Energy Meter for each output and Input and with cumulative			
Operating Temperature	Operating Temperature	-10 to 55 degC			
Humidity	Enclosure Protection	95% relative humidity, Non-condensing			
Enclosure Protection	Enclosure Protection	IP55 or better			
Cooling Method	Natural / Forced	Natural / FAN Cooling			
Applications	To Charge	4 wheelers compatible with CCS-2			
Communication between charger and EV	CCS2 : IEC 61851, PLC - DIN 70121 and ISO 15118	CCS2 : IEC 61851, PLC - DIN 70121 and ISO 15118			
Software		Software Upgradation through backend System through over the air			
Altitude		Upto 2000 m			
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			
Display	7" or bigger LCD or equivalent screen	<ul style="list-style-type: none"> <li>&gt;7" Industrial grade LCD or equivalent screen The following shall be displayed (a)KWhr consumed while charging</li> <li>(b)Date and time in DD/MM/YYYY, HH:MM</li> <li>c.Total KWhr consumed ( Totalizer) - On selection thru key pad/touchscreen</li> <li>d.Output DCV and Amp while charging</li> <li>e.Event logs- On selection basis thru keypad</li> <li>f.Alarms</li> <li>g.All error logs on selection basis</li> <li>h. Price per unit</li> <li>i. Total amount incremented during charging</li> </ul> (In case two vehicles charging simultaneously, screen should display the information of charging for both vehicles)			
CEA compliance	Chargers to comply with CEA guidelines	Chargers to comply with CEA guidelines and equipment related guidelines given by PNGRB in vogue			
Certification		Certification from ARAI / ICAT (or any Govt/NABL approved lab) and comply the standard from IEC 61851			
Memory storage		To store last 50 event logs			
		To store last 50 charging transactions			
		To have memory of storing price of charging per unit with in the unit			
		To store total charging units ( cumulative in KWHr)			
		Charging unit shall be able to take price per unit and billing information inputs thru key pad and store for calculation of amount			
Enclosure Protection	Protection against mechanical impact & stability	IK10,As per IEC 61851-1 Section 11.11.2 including charger Display			

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60KW

