



CHHABI
EVSE

a product catalog



About us

We at Chhabi EVSE envision a world which is not dependent on fossil fuels only. We strongly believe and support that it is time to move away from fossil fuels and move towards cleaner energy sources. The vision is about sustainable living using clean energy for the generations to come. Electric Vehicles are one way of living sustainably by reducing the dependency on fossil fuels for mobility application and the charging infrastructure will be the back-bone of this sector.

Chhabi EVSE which is part of the Chhabi group brings in 60years of charging experience. Chhabi has been a household name for DC Power solutions in the power and energy sector of this country. With the advent of electric vehicles, Chhabi ventured into manufacturing of EV chargers for home & public charging requirements as per the core purpose of providing innovative solutions for better tomorrow. Chhabi EVSE is a dedicated vertical for developing & delivering EV charger products and services. With home-grown technology and the ability to customize, Chhabi EVSE provides the industry scalable EV charging solutions.



Products

01 Fast Chargers (DC)

- 30 KW
- 60 KW
- 120 KW
- 180 KW
- 240 KW



Key Offerings

- Available in Single gun/ Dual gun options
- Available in CCS-2/ CHAdeMO/ GB/T connector options
- Degree of freedom customizable to IP-55
- Optional support for capacity expansion

02 Slow Chargers (AC)

- 7.4 KW
- 22 KW



Key Offerings

- Available in Single gun/ Dual gun options
- Available in Type -1 & Type -2 Connector options
- Branding and look can be customized on request
- Residential and commercial options available

Fast Charger (DC)

DC Chargers are chargers which supply DC (Direct current) to the electric vehicle. The AC -DC conversion happens in the onboard charger supplied and it bypasses the onboard converter. Thus depending on the capacity of onboard converter/charger & the demand of the EV, the DC current is provided and therefore at low state of charge (SOC) higher currents can be given. In this mode, EVs can get charged in less than an hour and therefore, DC Charging is known as fast charging.



Applications

- **Public Charging:** DC Charging being the fast-charging option is the most used charging mode on public charging stations. These stations which are located on highways, hotels and malls where EV owners spend limited amount of time and have the need for quick charging.
- **Public Transportation:** Public transportation like buses and last mile transport need quick charging option as these vehicles must be on the road supporting the public for reaching their desired destinations
- **Fleets Charging:** Fleets have different charging requirements at different times however during the day when the vehicles get discharged due to their desired running and have to return back quickly, this option is the most feasible mode of charging.



Key features

- Integrable with CSMS for remote operations
- Customized option available to suit special requirements
- Branding and look can be personalized
- Designed to create perfect balance between component assembly & heat management
- Compliant to charge ISO type & DIN Type vehicles

Key technical specification

- Modular in nature and can be provided in increments of 20KW/30KW
- Display options of 7" & 10" inch with LED glow bar provided
- Charging capability of CCS-2/ GB/T or Chademo
- Ingress protection of IP54 and scalable to IP55
- OCPP 1.6J protocol enabled through WIFI/sim, RFID or ethernet connectivity

30 kw

Technical specification

 Input voltage	415VAC, 3-phase/L1, L2, L3, N, PE
 Input voltage range	260VAC – 530VAC (
 Input frequency range	45Hz – 55Hz
 Power factor	>0.99
 Total Harmonic Distortion	<5%
 DC power rating	30kw
 Output voltage	200-1000V DC
 Dc output current	Up to 100A
 Efficiency	Up to or greater than 95% full load
 Connectivity	OCPP V1.6J through WIFI/ Ethernet/4G Sim or RFID
 Display	7" or 10" LCD Touch Screen
 Support language	English
 Emergency Switch	Available (Mushroom red switch)
 User authentication	RFID/App/OTP/QR (as per requirement)
 Safety parameter	Over current, Under voltage, Over voltage, Residual current, Surge protection, short circuit, Over temperature, Ground fault, Insulation fault, Emergency stop
 Operating temperature	-20°c to 75°c (de rating from 55°c)
 Storage temperature	-20°c to 80°c
 Humidity	5% to 95% non-condensing
 Altitude	Up to 2000 mtr.
 Ingress protection	IP54
 Cooling	Forced air cooling
 Weight	230kg
 Dimension (H*W*D)	700*700*700 mm – Wall mounted
 Charging cable length	>4.5 meter (standard)
 Charging operation	Cyclic mode

60 kw

Technical specification

 Input voltage	415VAC, 3-phase/L1, L2, L3, N, PE
 Input voltage range	260VAC - 530VAC
 Input frequency range	45Hz - 55Hz
 Power factor	>0.99
 Total Harmonic Distortion	<5%
 DC power rating	60kW
 Output voltage	200-1000V DC
 Dc output current	Up to 150A
 Efficiency	Up to or greater than 95% full load
 Connectivity	OCPP V1.6J through WIFI/ Ethernet/4G Sim or RFID
 Display	7" or 10" LCD Touch Screen
 Support language	English
 Emergency Switch	Available (Mushroom red switch)
 User authentication	RFID/App/OTP/QR (as per requirement)
 Safety parameter	Over current, Under voltage, Over voltage, Residual current, Surge protection, short circuit, Over temperature, Ground fault, Insulation fault, Emergency stop
 Operating temperature	-20°C to 75°C (de rating from 55°C)
 Storage temperature	-20°C to 80°C
 Humidity	5% to 95% non-condensing
 Altitude	Up to 2000 mtr.
 Ingress protection	IP54
 Cooling	Forced air cooling
 Weight	310kg
 Dimension (H*W*D)	1800*800*600 mm
 Charging cable length	>4.5 meter (standard)
 Charging operation	Cyclic mode
 Charging mode	Mode for DC charging

120 kw

Technical specification

 Input voltage	415VAC, 3-phase/L1, L2, L3, N, PE
 Input voltage range	260VAC - 530VAC
 Input frequency range	45Hz - 55Hz
 Power factor	>0.99
 Total Harmonic Distortion	<5%
 DC power rating	120kW
 Output voltage	200-1000V DC
 Dc output current	Up to 200A
 Efficiency	Up to or greater than 95% full load
 Connectivity	OCPP V1.6J through WIFI/ Ethernet/4G Sim or RFID
 Display	7" or 10" LCD Touch Screen
 Support language	English
 Emergency Switch	Available (Mushroom red switch)
 User authentication	RFID/App/OTP/QR (as per requirement)
 Safety parameter	Over current, Under voltage, Over voltage, Residual current, Surge protection, short circuit, Over temperature, Ground fault, Insulation fault, Emergency stop
 Operating temperature	-20°C to 75°C (de rating from 55°C)
 Storage temperature	-20°C to 80°C
 Humidity	5% to 95% non-condensing
 Altitude	Up to 2000 mtr.
 Ingress protection	IP54
 Cooling	Forced air cooling
 Weight	340kg
 Dimension (H*W*D)	1800*800*700 mm
 Charging cable length	>4.5 meter (standard)
 Charging operation	Cyclic mode
 Charging mode	Mode for DC charging

180 kw

Technical specification

 Input voltage	415VAC, 3-phase/L1, L2, L3, N, PE
 Input voltage range	260VAC - 530VAC
 Input frequency range	45Hz - 55Hz
 Power factor	>0.99
 Total Harmonic Distortion	<5%
 DC power rating	180kW
 Output voltage	200-1000V DC
 Dc output current	Up to 250A
 Efficiency	Up to or greater than 95% full load
 Connectivity	OCPP V1.6J through WIFI/ Ethernet/4G Sim or RFID
 Display	7" or 10" LCD Touch Screen
 Support language	English
 Emergency Switch	Available (Mushroom red switch)
 User authentication	RFID/App/OTP/QR (as per requirement)
 Safety parameter	Over current, Under voltage, Over voltage, Residual current, Surge protection, short circuit, Over temperature, Ground fault, Insulation fault, Emergency stop
 Operating temperature	-20°C to 75°C (de rating from 55°C)
 Storage temperature	-20°C to 80°C
 Humidity	5% to 95% non-condensing
 Altitude	Up to 2000 mtr.
 Ingress protection	IP54
 Cooling	Forced air cooling
 Weight	380kg
 Dimension (H*W*D)	1800*800*700 mm
 Charging cable length	>4.5 meter (standard)
 Charging operation	Cyclic mode
 Charging mode	Mode for DC charging

240 kw

Technical specification

 Input voltage	415VAC, 3-phase/L1, L2, L3, N, PE
 Input voltage range	260VAC - 530VAC
 Input frequency range	45Hz - 55Hz
 Power factor	>0.99
 Total Harmonic Distortion	<5%
 DC power rating	240kW
 Output voltage	200-1000V DC
 Dc output current	Up to 250A
 Efficiency	Up to or greater than 95% full load
 Connectivity	OCPP V1.6J through WIFI/ Ethernet/4G Sim or RFID
 Display	7" or 10" LCD Touch Screen
 Support language	English
 Emergency Switch	Available (Mushroom red switch)
 User authentication	RFID/App/OTP/QR (as per requirement)
 Safety parameter	Over current, Under voltage, Over voltage, Residual current, Surge protection, short circuit, Over temperature, Ground fault, Insulation fault, Emergency stop
 Operating temperature	-20°C to 75°C (de rating from 55°C)
 Storage temperature	-20°C to 80°C
 Humidity	5% to 95% non-condensing
 Altitude	Up to 2000 mtr.
 Ingress protection	IP54
 Cooling	Forced air cooling
 Weight	400kg
 Dimension (H*W*D)	1800*800*800 mm
 Charging cable length	>4.5 meter (standard)
 Charging operation	Cyclic mode
 Charging mode	Mode for DC charging

Great, isn't it?



Slow Charger (AC)

AC Chargers are chargers which supply AC (Alternating current) to the electric vehicle. The AC power is generally known as grid/utility power and the AC chargers rely on the on-board AC-DC converter to charge the batteries.

The on-board converters have limits for size & cost and hence these converters are constant low power converters and therefore AC Charging is known slow charging.



Applications

- Home Charging: Perfect solution for home charging as this option can be chosen when the EV owners are at home and vehicles thus can be charged overnight where the load constraints at individual homes allow this option to be very feasible.
- Commercial Charging: Vehicles parked in the commercial spaces can choose the slow charging option as these vehicles are generally parked during the day when the EV owners are at work.
- Fleets Charging: Fleets have different charging requirements at different times however when the vehicles are not operational for a considerable amount then this charging option can be taken for charging the vehicles.



Key features

- Interactive display for all charging related information
- Easy to install and operate
- Ground mounted and wall mounting option available
- Load balancing feature for multiple chargers
- Personal charging and commercial charging option available

Key technical specification

- Ingress protection of IP67
- Communication through WIFI/sim, RFID or ethernet available
- Type-2 connector provided
- Protections & safety enabled
- OCPP 1.6J protocol enabled

7.4 kw

Technical specification

 Rated Maximum Power	7.4kW 230v, 1-phase 3wire (L+N+PE)
 Rated Maximum current	32A
 MCB Recommended	40A, 2 pole
 Input cable conductor recomd. size	6 sq mm 3 core cable
 Input voltage	230 VAC 50Hz 1 phase (L+N+PE)
 Input current	32A (Max)
 Output Voltage	230 VAC ±10%, 1-phase
 Output current	32A (Max)
 Standby power	3W
 Charging mode	RFID or CSMS enabled through OCPP
 Display	In multiple options and default display as 4"3
 Communication Interface	Ethernet/SIM/ WIFI
 OCPP 1.6J Compliance	Yes
 Rated Maximum current	Over current, Over voltage, Under voltage, Over temperature, Leakage, Lightning, Unconnected PE ground
 Installation method	Wall mounted, Stand mounted
 Charging connector	Type 2
 Charging cable	5m (standard configuration)
 Size (H*W*D)	400*300*210mm
 Net weight	Approx 10kg
 Protection level	IP55/IP67
 Altitude	≤2000m
 Relative humidity	5%~95%
 Operating temperature	-10~55°C
 Storage temperature	-40~75°C
 Operating life	≥10000hrs

22 kw

Technical specification

 Rated Maximum Power	22kW 400v, 3-phase 3/4wire (L+N+PE)
 Rated Maximum current	32A
 MCB Recommended	40A, 2 pole
 Input cable conductor recomd. size	6 sq mm 3 core cable
 Input voltage	400 VAC 50Hz 3 phase (L+N+PE)
 Input current	32A (Max)
 Output Voltage	400 VAC ±10%, 3-phase
 Output current	32A (Max)
 Standby power	3W
 Charging mode	RFID or CSMS enabled through OCPP
 Display	In multiple options and default display as 4"3
 Communication Interface	Ethernet/SIM/ WIFI
 OCPP 1.6J Compliance	Yes
 Rated Maximum current	Over current, Over voltage, Under voltage, Over temperature, Leakage, Lightning, Unconnected PE ground
 Installation method	Wall mounted, Stand mounted
 Charging connector	Type 2
 Charging cable	5m (standard configuration)
 Size (H*W*D)	650*400*450mm
 Net weight	Approx 25kg
 Protection level	IP55/IP67
 Altitude	≤2000m
 Relative humidity	5%~95%
 Operating temperature	-10~55°C
 Storage temperature	-40~75°C
 Operating life	≥10000hrs