



Corporate Office:

Plot No-1670 Rai Industrial Estate, Sector-38
Sonipat, Haryana – 131029

Registered Office:

G-7/325, Sector -16, Rohini, Delhi -110085

E-Fill Electric

(EFEV Charging Solutions Pvt Ltd.)

E-FILL X3 30kW DC EVSE V2.0 PRODUCT TECHNICAL SPECIFICATIONS

Technical Particulars	CCS2 30kW V2.0 Technical Specifications
Input Supply	3 Phase 415 V AC
Voltage Range	415 V AC \pm 10%
Rated Frequency	50Hz
Frequency Range	50Hz \pm 3% (IS 12360)
Rated Current	50 Amp per phase
Input Power	~35 – 40 KVA
Power factor	>0.98 on full load
Metering	DC energy meter with 1% accuracy
Earthing System	TN-S
Standard	IEC61851, IEC62196, IEC62763,
	ISO15118/DIN70121
	IS 17017
No. of Outlets	Single
Vehicle Connector	IEC-62196 Type 2 combo
Output Power	30KW
Output Voltage	200 - 1000 V DC
Output Current	100 A max
Efficiency	>95% on full load
Cable Length	4.3 Meters (Actual)
Place of installation	Outdoor
Installation Type	Wall/Pole mounted
IP Protection degree	IP54
Operating Ambient Temperature	(-)10°C to +55°C
Humidity Range	95% relative humidity, non-condensing
Noise Level	Applicable
Cooling	Forces air cooling
Heat Dissipation	FANs provided to dissipate internal heat
Display	4.3 Inch
Indications	No
Storage Temperature	0-60 Degree C
Ambient Pressure	79-106 kpa
Altitude	2000 Mtrs above sea level



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Emergency Stop Button	Provided.
Time Out Shutdown/ Sleep	No
Mode	Mode 4
Data Storage	1000 transaction history
Data retrieval from Charger manually	No
User Recognition	APP, RFID, CMS
RFID reader specs*	Yes
Operating Life of charger	Yes
Life Cycles for Connector	Yes
Safety Parameters	Over current, under voltage, over voltage, Residual current, Surge protection, short circuit, emergency shutdown and notification server, Over temperature, Protection against electric shock
Protection against Electric Shock	No RCCB
Protection against Direct Contact to Live parts	No live parts for customer interfacing.
Permissible Surface Temperature's	Conforming to permissible surface temperature according to IEC61851-1
Discharge of Capacitors/storage energy	Conforming to Discharge of Capacitors/storage energy according to IS17017-1
Voltage Surge	SPD Provided for surge protection.
Over-voltage / Under-voltage protection	shall adhere IS 17017-1
Ground fault detection	shall adhere IS 17017-1
Internal Residual Current Detection	No RCCB
Over temperature protection (Derating/Shutdown)	On over temperature charger status become faulted, in this case charging not allowed.
Reverse polarity protection	Yes



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Under Voltage Shutdown Voltage	User-configurable in settings, in undervoltage condition ongoing charging will be stopped and charger goes to faulted mode.
Over Voltage Shutdown Voltage	user-configurable in settings, in overvoltage condition ongoing charging will be stopped and charger goes to faulted mode.
Insulation Type	Basic
Insulation Resistance	>7 Mega Ohm
Harmonics Protection level	
Energy Calculation Function	Output DC transfer Energy calculated.
Diagnostic Function/Data monitoring	Functions are provided as per sheet.
Alarm/Fault condition standard as per TPC need	Error code will be impemented in firmware
Automatic Software update over Net	Firmware update OTA provide.
Input Supply Failure backup	Data will be send to CMS once charger is connected back to internet.
Input Supply Failure	Charger shutdown
Charger to CMS	OCPP1.6
Network interface	Ethernet, Wi-Fi (2.4GHz), 4G
	Currently 4G modem provided.
DC Output voltage and current tolerance	Output voltage range: 200 - 1000 V DC Output current range: 0 - 100A DC
Control delay of charging current in CCC	Yes
Descending rate of charging Current	As per standard
Periodic and random deviation (Current ripple)	As per standard
Periodic and random deviation	As per standard
(Voltage ripple)	As per standard



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YOURS FAITHFULLY,
For **EFEV CHARGING SOLUTIONS PVT. LTD.**
Thanks, and Regards

