TIREX

Powering Growth

3.3kW

Portable EVSE

TIREX
Powering Growth

TECHNICAL SPECIFICATION

Electrical Specification

Parameters	Description
Input / output AC voltage (Single phase 3 wire with Protective Earth (PE))	AC 240V(-30%+20%) [168V to 288V
Input / Output current (AC)	16 Amps
Power (Input and Output)	3.3 KW
Car charging current	12 to 16 Amps
Control Pilot PWM duty cycle	25%
Proximity Pilot (resistance between PE and PP is 220 ohms)	Within EVSE connector
Control Pilot voltage level (as per standard IEC IEC61851-1)	+/- 12V
Control Pilot voltage levels after connection (as per standard (as per IEC61851-1))	+12V, +9V, +6V
EVSE connector outlet (@ 20 A)	IEC 62196 Type 2
Over Current load protection	At 16.5 Amps
EVSE outlet cable IEC 62196 Type 2 20 Amp	TTEV20A-IP5T2

TIREX
Powering Growth

Electrical Specification

Parameters	Description
Input power plug (fire retardant)	15 Amp, 3 pin
Enclosure protection class	IP 65
Operating temperature	-10°C to +55°C
Storage temperature	-40°C to 60°C
Humidity (non-condensing)	85%
Visual Indications 4 bright LEDs	Power On – Blue Car connected – Orange Charging – Green Fault – Red
Over current protection fault	Slow blinking Red
PE(Protection Earth fault - residual current)	Fast blinking Red
Mounting	Hand held portable
Dimension in mm (Box) approx	260(L) x 80(W)x 45H)
Weight including cable (approx)	3.5 Kg

TIREX
Powering Growth

Gulf

We are Tirex Chargers, A Subsidiary of Gulf Oil Lubricants India Limited and part of the Hinduja Group. We specialize in advanced power electronics technology for fast-charging electric four-wheelers, buses, and trucks. Our core product range includes AC-DC converters integrated with an innovative operating system and high-level communication interface, enabling faster, safer, and more efficient charging.

5000+ Chargers on ground

Robust Service Network Covering **300+** Cities

1,70,000+kW Deployed

TRUSTED BY ELITE GLOBAL CLIENTS

SWITCH · MG · eka · CHARGE ZONE · TATA · TATA POWER · DAIMLER · GOGO · L&T

info@tirexchargers.com

www.tirexchargers.com

+91 8305305305

4th Floor, Maruti - The Ridge, Opp. Hotel Novotel, Nr. Shivalik Shilp, Isckon Cross Road, SG Highway, Ahmadabad, Gujarat 380015.

Visit our website to know more

TIREX

Powering Growth

7.2kW

Portable EVSE

TIREX
Powering Growth

TECHNICAL SPECIFICATION

A. Electrical Specifications

Parameters	Description
Mode of Charger	Mode 2 (As per IEC 62752 & IEC 61851)
Level of Charging Voltage	Level 2: 240V
Type of Output Connector	7 Pin AC Charging Port-Type 2 (IEC 62196) for AC
Energy Transfer Mode	Conductive
Input AC Supply	1 Phase, 3 wire system (1L(Ph)+N+PE)
Input Voltage Range	130-280 VAC
Input Frequency	50Hz ±5%
Input Connector	Type 3 Pin Industrial Socket (1L(Ph)+N+PE) as per IEC 60309-1
Output Nominal Voltage	230V AC
Maximum Output Current	32A AC
Communication between EVSE and EV	As per IEC 61851-1
Output protection	Over Current, Short Circuit, Over Voltage, Under Voltage, Ground fault, Surge protection, Over Temperature, Earth Leakage protection, Residual Current Detection

B. Mechanical Specifications - Type 2 Plug

Parameters	Description
Max preferred dimension	As per IEC-62196-2
Mating cycles	> 10000 Cycles
Insertion force	As per IEC-62196-2
Withdrawal force	As per IEC-62196-2

C. Environmental Conditions

Parameters	Description
Ambient temperature	(-25°C) to 55°C
Storage temperature	(-40°C) to 85°C
Altitude	3000m (normal) and 5400m (specific regions)
Humidity	85% RH
Ingress Protection	IP65 for IC-CPD, IP55 for Type 2 plug unmated condition with dust cap & IP54 Type 2 plug mated condition
Cooling Mode	Natural Cooling

D. Cable Specifications

Cable Description	Cross Sectional Area (sq. mm) (As per IEC 62196)
Phase (L1)	6
Neutral (N)	6
Protective Earth (PE)	6

E. User Interface

Parameters	Description
EVSE Type	Portable
Cable length	5000 mm
Visual Indicators (Status LED)	Presence of input supply indication, Error Indication, Charging indication

TIREX
Powering Growth

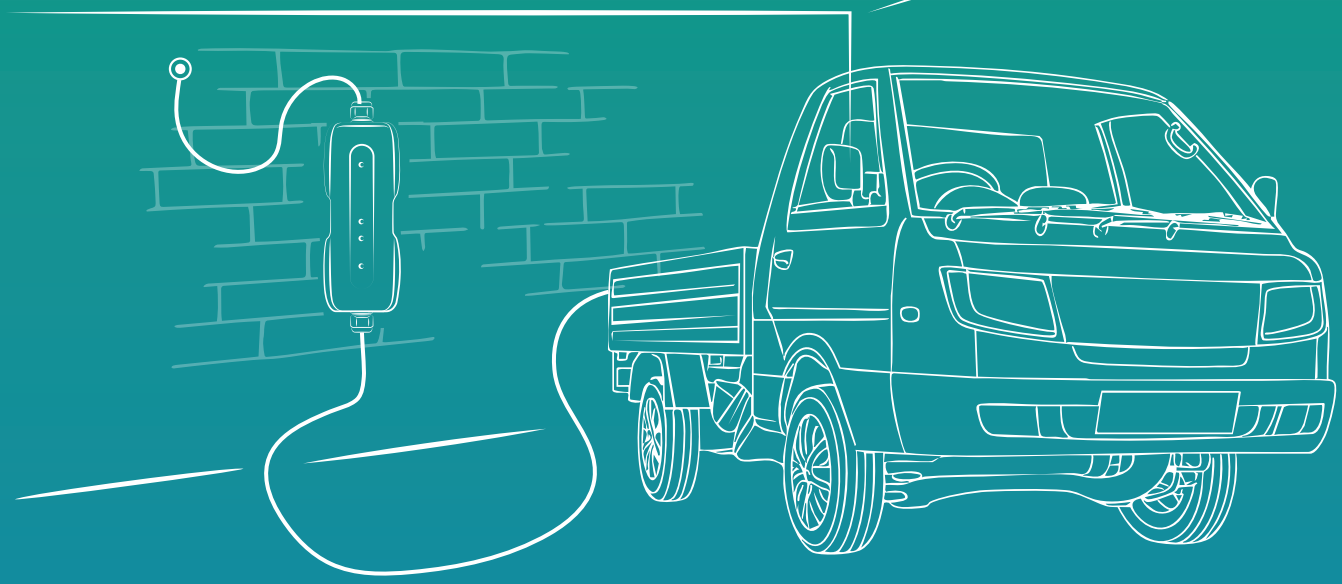
Gulf

We are Tirex Chargers, A Subsidiary of Gulf Oil Lubricants India Limited and part of the Hinduja Group. We specialize in advanced power electronics technology for fast-charging electric four-wheelers, buses, and trucks. Our core product range includes AC-DC converters integrated with an innovative operating system and high-level communication interface, enabling faster, safer, and more efficient charging.

5000+ Chargers on ground

Robust Service Network Covering **300+** Cities

1,70,000+kW Deployed



TRUSTED BY ELITE GLOBAL CLIENTS

SWITCH · MG · eka · CHARGE ZONE · TATA · TATA POWER · DAIMLER · GOGO · L&T

info@tirexchargers.com

www.tirexchargers.com

+91 8305305305

4th Floor, Maruti - The Ridge, Opp. Hotel Novotel, Nr. Shivalik Shilp, Isckon Cross Road, SG Highway, Ahmadabad, Gujarat 380015.

Visit our website to know more

TIREX

Powering Growth

7.4kW

HOME CHARGER

TIREX
Powering Growth

TECHNICAL SPECIFICATION

Electrical Specification

Parameters	Description
Rated Voltage	230 VAC
Power Input	180 to 280VAC (1P+N+E)
Max Power	7.4kW
Rated Current	Max 32A
Input Frequency	50Hz
Control Pilot PWM Duty Cycle	53.33%
Over Voltage Trip	280VAC
Over Current Trip	34A
Residual current Detect	30mAAC & 6mADC

Proximity Pilot

Parameters	Description
(Resistance Between PE and PP is 220 ohms)	Within EVSE Connector

Control Pilot Voltage Level

Parameters	Description
(As per Standard IEC 61851-1)	(+/-12V)

TIREX
Powering Growth

Control Pilot Voltage Level after connection

Parameters	Description
(As per Standard IEC 61851-1)	+12V, +9V, +6V

Mechanical Specifications

Parameters	Description
Dimensions	424(L)x222(W)X121(D)(in mm)
Weight	2.5 Kg
EVSE Connector Outlet	IEC 62196 Type 2
Enclosure Protection Class	IP65

Environmental Condition

Parameters	Description
Operating temperature	(-25°C) to +55°C
Storage temperature	(-40°C) to +85°C
Humidity	Up to 95%, non-condensing
Altitude	Max. 2000 m above sea level

Indication Condition

Parameters	Description
Visual Indications 4 Bright LEDs	Power ON - Blue
	Car Connected - Orange
	Charging Green
	Fault - Red

www.tirexchargers.com

TIREX
Powering Growth

Gulf

We are Tirex Chargers, A Subsidiary of Gulf Oil Lubricants India Limited and part of the Hinduja Group. We specialize in advanced power electronics technology for fast-charging electric four-wheelers, buses, and trucks. Our core product range includes AC-DC converters integrated with an innovative operating system and high-level communication interface, enabling faster, safer, and more efficient charging.

5000+ Chargers on ground

Robust Service Network Covering **300+** Cities

1,70,000+kW Deployed

TRUSTED BY ELITE GLOBAL CLIENTS

SWITCH · MG · eka · CHARGE ZONE · TATA · TATA POWER · DAIMLER · GOGO · L&T

info@tirexchargers.com

www.tirexchargers.com

+91 8305305305

4th Floor, Maruti - The Ridge, Opp. Hotel Novotel, Nr. Shivalik Shilp, Isckon Cross Road, SG Highway, Ahmadabad, Gujarat 380015.

Visit our website to know more

TIREX

Powering Growth

30kW

At Tirex Chargers, we are dedicated to revolutionizing the electric vehicle (EV) charging experience. Our all-new 30kW DC Fast Charger is designed to deliver cutting-edge technology, hight-performance capabilities, and unmatched convenience to meet the diverse needs of EV owners, from individual drivers to commercial fleets.

Versatile Design

Our compact and modular design suits various settings, from retail to highways and fleets. Choose single or dual outlets, and expand as needed.

Future-Ready

Built to support upcoming EVs, even those with 800V architecture, keeping you ahead in the evolving market.

Enhanced Utilization

Innovative power-sharing technology enables simultaneous charging of two vehicles, ensuring efficient infrastructure use.

Durable Product

Designed for over 15 hours of daily use, Tirex Chargers undergo rigorous testing for compliance with IEC 61851 and ISO 15118 standards, ensuring quality and reliability.

TIREX
Powering Growth

Power of Charger
30kW

Adaptive
150-1000V
Range

Current up to
100A

TIREX
Powering Growth

Technical Specification	
Electrical	
Maximum Output Power	30 kW
Input Supply	3 Phase 5 wire AC Supply
Input Supply Rating	3 Phase 380-480 Vac
Nominal Input Power (Approx.)	32 kVA
Input Frequency	50/60 Hz
Output Voltage Per Gun	150 - 1000 Vdc (150-500 and 300-1000 seamless rise)
Output Max Current Per Gun	100 A
Metering	Grid Responsive Metering
Efficiency	>95% at Full Load condition
Power Factor	>0.98 at Nominal Load
Maximum Power Density	0.363 W/cm^3
Number of Power Modules	1
Individual Capacity of Power Modules	30kW
Short Circuit Current Rating	10kA
Safety Systems	Under Voltage, Over Voltage, Over Current, Single Phasing, Earth Leakage, Over Temperature, Surge Protection
Interface	
Gun Configurations	Single CCS2
Charging Cable Length	5M
CMS Protocol	OCPP 1.6J Upgradable to OCPP 2.0
User Interface	10.4 Inch full colored touch screen
Network Connection	3G/4G Sim Card, Ethernet
RFID	MIFARE ISO 14443 Type A
Environmental	
Cooling of Cabinet	Forced Air Cooled
Cooling of Power Modules	Forced Air Cooled
Humidity (Non Condensing)	5%-95%
Max Operating Altitude	2000 M
Operating Temperature Range	Negative 20 Degree Celsius to 70 Degree Celsius (Derating beyond 55 Degree Celsius)
Storage Temperature Range	Negative 40 Degree Celsius to 70 Degree Celsius
Mechanical	
IP Rating	IP 55
IK Rating	IK 10
Dimensions (Foot Print in W x D x H in mm)	NA
Dimensions (Maximum Points in W x D x H in mm)	459 x 245 x 734
Mounting	Wall or Stand
Standards Compliance	
Electrical Safety	IEC 61851-1
Electromagnetic Compatibility	IEC 61851-21-2 IEC 61000-4
Other	AIS 138 Part 2
EV Communication	ISO 15118 - CCS2

TIREX
Powering Growth

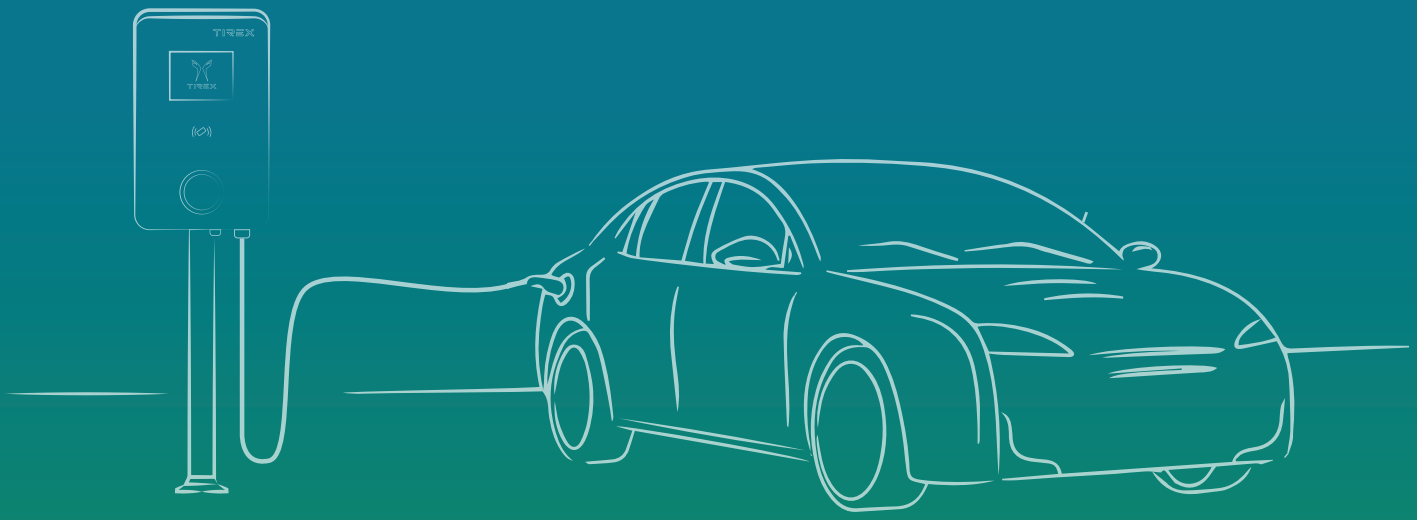
Gulf

We are Tirex Chargers, A Subsidiary of Gulf Oil Lubricants India Limited and part of the Hinduja Group. We specialize in advanced power electronics technology for fast-charging electric four-wheelers, buses, and trucks. Our core product range includes AC-DC converters integrated with an innovative operating system and high-level communication interface, enabling faster, safer, and more efficient charging.

5000+ Chargers on ground

Robust Service Network Covering **300+** Cities

1,70,000+kW Deployed



TRUSTED BY ELITE GLOBAL CLIENTS

SWITCH · MG · eka · CHARGE ZONE · TATA · TATA POWER · DAIMLER · GOGO · L&T

info@tirexchargers.com

www.tirexchargers.com

+91 8305305305

4th Floor, Maruti - The Ridge, Opp. Hotel Novotel, Nr. Shivalik Shilp, Isckon Cross Road, SG Highway, Ahmadabad, Gujarat 380015.

Visit our website to know more