



CHARGING POINT INSTANTION GUIDELINES

ABOUT

The charger provided with the Li-Ion battery is sophisticated and is a special purpose electronic charger. This charger has an additional safety feature which provides protection from output overvoltage, output overcurrent and short-circuit. The charger is designed to charge only Twigo EV specific to the model.

It is mandatory to meet the charging point requirements as mentioned further in this manual. This is to ensure optimum performance, maintain the battery health and safety.

INFRASTRUCTURE REQUIREMENTS

Parking area:

- Vehicle must be parked away from water and fire sources. Vehicle parking should be easily accessible and must be of minimum 7ft X 4ft.
- Exposure to direct sun-light & rain shall be avoided

Sanctioned Load

- Consumer must have spare 0.75kW load. This can be ensured by verifying electricity bill of the previous month. (Recorded Maximum Demand < Sanctioned Load)

Infrastructure Requirements

Healthy Earthing

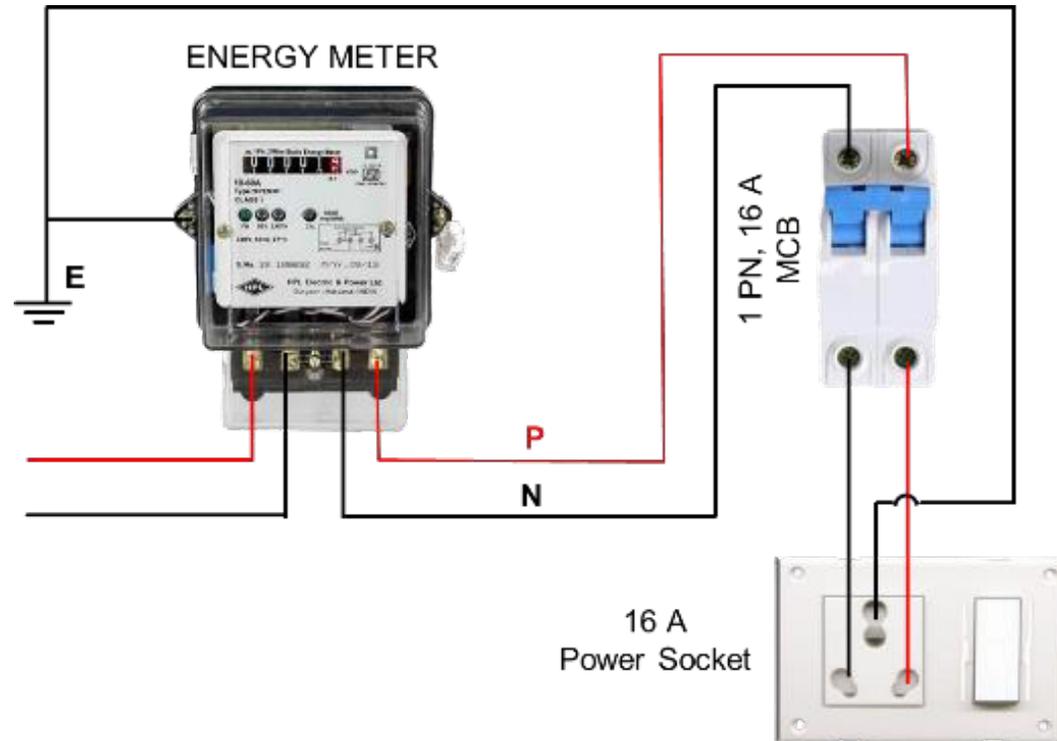
- A proper earthing must be ensured by any of the following methods,
 - ✓ Pipe Earthing
 - ✓ Cu Rod Earthing
 - ✓ Plate Earthing
- AC Voltage Between Neutral (N) & Earth (E) must be $\leq 2V$
- Resistance Between Neutral (N) & Earth (E) must be $\leq 5 \Omega$

Healthy Voltage Requirement:

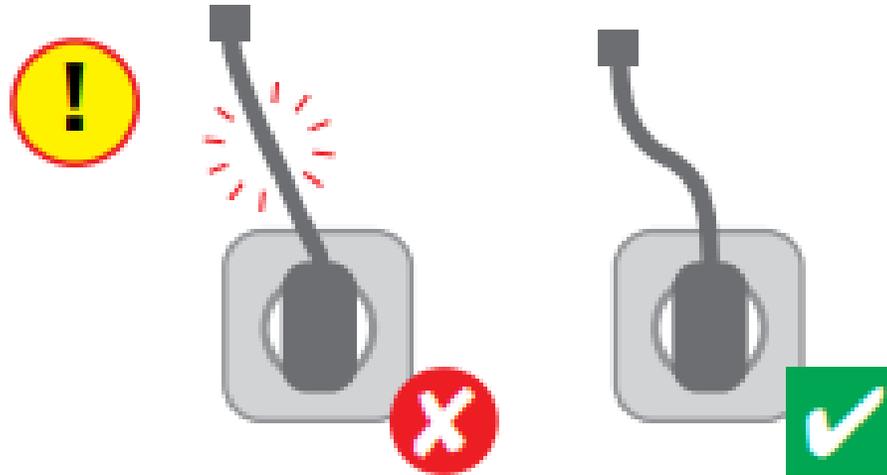
- AC Voltage between Phase (P) & Neutral (N) must be $230V \pm 10\%$

Sr. No.	Essential Requirements	Specifications	Remark
1	AC Input Cable	3-Core, 1.5sqmm, Copper conductor, PVC insulated, PVC sheathed as per IS:9938/1981 with ISI mark	Length should not be more than 5 m from energy Meter
2	Voltage Stabilizer	Current rating: 16 A Voltage Rating: 180-270 V	Recommended
3	PVC Box Socket	Current rating: 6 - 16 A	
4	Flexible Conduit and Clamp	Size: ≥ 16 mm	
5	MCB	2 NOS Specifications: 1P 240V, 16A MCB or 1PN 16A MCB Curve Characteristics: B or C Breaking Capacity: ≥ 6 kA	**Recommendation: Anchor, Havells, Legrand, HPL, ABB

** Brands are mentioned just for recommendation purpose only, it is advisable to follow the electrical guidance for installation
Charging Point Installation Guideline



- The charger requires a single-phase connection with Earthing.
- Locate the nearest power source to avoid laying down a huge network of cables.
- The use of a stabilizer is recommended* to ensure safety of the device.
- The regulated supply must be available at a commercial socket with a power switch of 16A.



Tip: Be sure the power cord has a gentle curve but is not stretched.

- The socket must be installed at the min. height of 4 feet above ground surface.

PRECAUTIONS



- The phenomenon of sparking is normal when it connects to the battery because of the high current.
- The battery may be damaged if LED2 does not change to green even after charging for a long time.
- Always place the charger in well-ventilated and dry environments.
- Do not cover it to avoid the case from being overheated while charging.
- Do not disassemble charger. Take it to an authorized service person when service or repair is required