

## Definition of a moped

A moped is:

- A motor vehicle.
- Specifically, not a motorcycle.
- Required to have a maximum design speed of 50km/h and an engine capacity of not more than 50ml (50cc) if not electrically driven.

### Electric Motor Size Comparison for 50cc Petrol Engine

If the power does not exceed 4000-watts, and the speed does not exceed 50km/h, the electric bike is a 50-cc equivalent (i.e. moped). With a power of the motor higher than 4000 Watts, the electric scooter is able to reach a higher top speed and is considered as a 125cc equivalent (i.e. a motorcycle).

***1ml is 1cc so a 50ml petrol engine is the same size as 50cc petrol engine.***

## NSW Moped laws

A moped is a small motorcycle that:

- has an internal combustion engine with a capacity not exceeding 50ml, or an alternative power source e.g. electric motor.
- has a maximum speed of 50km/h.
- may be either two-wheeled or three-wheeled.
- may be pedal assisted.

**These vehicles are legal on NSW roads as long as they're:**

- entered on the Register of Approved Vehicles (RAV), or for an older model, fitted with an identification plate (commonly referred to as a compliance plate),
- compliant with the applicable vehicle standards
- registered
- ridden by a licensed rider.

Interestingly the NSW Moped Law can be found at the bottom of the Transport for NSW E-bike website page - <https://www.transport.nsw.gov.au/roadsafety/bicycle-riders/ebikes>