

Regulation (EU) No 168/2013 of the European Parliament and of the Council of 15 January 2013 on the approval and market surveillance of two- or three-wheel vehicles and quadricycles (Text with EEA relevance)

Changes to legislation: There are currently no known outstanding effects for the Regulation (EU) No 168/2013 of the European Parliament and of the Council, ANNEX I. (See end of Document for details)

ANNEX I

VEHICLE CLASSIFICATION

Category	Category name	Common classification criteria
L1e-L7e	All L-category vehicles	<p>(1) length \leq 4 000 mm or \leq 3 000 mm for a L6e-B vehicle or \leq 3 700 mm for a L7e-C vehicle, and</p> <p>(2) width \leq 2 000 mm, or \leq 1 000 mm for a L1e vehicle, or \leq 1 500 mm for a L6e-B or a L7e-C vehicle and</p> <p>(3) height \leq 2 500 mm and</p>
Category	Category name	Common classification criteria
L1e	Light two-wheel powered vehicle	<p>(4) two wheels and powered by a propulsion as listed under Article 4(3) and</p> <p>(5) engine capacity \leq 50 cm³ if a PI internal combustion engine forms part of the vehicle's propulsion configuration and</p> <p>(6) maximum design vehicle speed \leq 45 km/h and</p> <p>(7) maximum continuous rated or net power ⁽¹⁾ \leq 4 000 W and</p> <p>(8) maximum technically permissible mass declared by the manufacturer and</p>
Sub-categories	Subcategory name	Supplemental sub-classification criteria

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L1e-A	Powered cycle	<p>(9) cycles designed to pedal equipped with an auxiliary propulsion with the primary aim to aid pedalling and</p> <p>(10) output of auxiliary propulsion is cut off at a vehicle speed \leq 25 km/h and</p> <p>(11) maximum continuous rated or net power ⁽¹⁾ \leq 1 000 W and</p> <p>(12) a powered three- or four-wheel cycle complying with supplemental specific sub-classification criteria (9) to (11) is classified as being technically equivalent to a two-wheel L1e-A vehicle.</p>
L1e-B	Two-wheel moped	<p>(9) any other vehicle of the L1e category that cannot be classified according to the criteria (9) to (12) of a L1e-A vehicle.</p>
Category	Category name	Common classification criteria
L2e	Three-wheel moped	<p>(4) three wheels and powered by a propulsion as listed under Article 4(3) and</p> <p>(5) engine capacity \leq 50 cm³ if a PI internal combustion engine or engine capacity \leq 500 cm³ if a CI combustion engine forms part of the vehicle's propulsion configuration and</p>

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		<p>(6) maximum design vehicle speed ≤ 45 km/h and</p> <p>(7) maximum continuous rated or net power ⁽¹⁾ ≤ 4 000 W and</p> <p>(8) mass in running order ≤ 270 kg and</p> <p>(9) equipped with a maximum of two seating positions, including the seating position for the driver and</p>
Sub-categories	Subcategory name	Supplemental sub-classification criteria
L2e-P	Three-wheel moped for passenger transport	(10) L2e vehicle other than those complying with the specific classification criteria for a L2e-U vehicle.
L2e-U	Three-wheel moped for utility purposes	<p>(10) exclusively designed for the carriage of goods with an open or enclosed, virtually even and horizontal loading bed that meets the following criteria:</p> <p>(a) length_{loading bed} ×</p> <p>(b) or an equivalent loading bed area as defined above in order to install machines and/or equipment and</p> <p>(c) designed with a loading</p>

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		(d) bed area which is clearly separated by a rigid partition from the area reserved for the vehicle occupants and the loading bed area shall be able to carry a minimum volume represented by a 600 mm cube.
Category	Category name	Common classification criteria
L3e ⁽²⁾	Two-wheel motorcycle	<p>(4) two wheels and powered by propulsion as listed under Article 4(3) and</p> <p>(5) maximum technically permissible mass declared by the manufacturer and</p> <p>(6) two-wheel vehicle that cannot be classified as category L1e.</p>
Sub-categories	Subcategory name	Supplemental sub-classification criteria
L3e-A1	Low-performance motorcycle	<p>(7) engine capacity \leq 125 cm³ and</p> <p>(8) maximum continuous rated or net power ⁽¹⁾ \leq 11 kW and</p>

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		(9)	power ⁽¹⁾ /weight ratio $\leq 0,1$ kW/kg.
L3e-A2	Medium-performance motorcycle	(7)	maximum continuous rated or net power ⁽¹⁾ ≤ 35 kW and
		(8)	power ⁽¹⁾ /weight ratio $\leq 0,2$ kW/kg and
		(9)	not derived from a vehicle equipped with an engine of more than double its power ⁽¹⁾ and
		(10)	L3e vehicle that cannot be classified under supplemental sub-classification criteria (7), (8) and (9) of a L3e-A1 vehicle.
L3e-A3	High-performance motorcycle	(7)	any other L3e vehicle that cannot be classified according to the classification criteria of a L3e-A1 or L3e-A2 vehicle.
Sub-sub-categories	Sub-Subcategory name	Sub-Sub-classification criteria in addition to the sub-classification criteria of L3e-A1, L3e-A2 or L3e-A3 vehicles	
L3e-AxE (x = 1, 2 or 3)	Enduro motorcycles	(a)	seat height ≥ 900 mm and
		(b)	ground clearance ≥ 310 mm and
		(c)	overall gear ratio in highest gear (primary gear ratio \times secondary gear ratio in the highest speed \times final drive ratio) $\geq 6,0$ and
		(d)	mass in running order plus the mass of the propulsion battery in case of electric or hybrid

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		(e) electric propulsion ≤ 140 kg and no seating position for a passenger.
L3e-AxT (x = 1, 2 or 3)	Trial motorcycles	(a) seat height ≤ 700 mm and (b) ground clearance ≥ 280 mm and (c) fuel tank capacity ≤ 4 litres and (d) overall gear ratio in highest gear (primary gear ratio \times secondary gear ratio in the highest speed \times final drive ratio) $\geq 7,5$ and (e) mass in running order ≤ 100 kg and (f) no seating position for a passenger.
Category	Category name	Common classification criteria
L4e	Two-wheel motorcycle with side-car	(4) base powered vehicle complying with the classification and subclassification criteria for a L3e vehicle and (5) base powered vehicle equipped with one side-car and (6) with a maximum of four seating positions including the driver on the motorcycle with side car and (7) a maximum of two seating positions for passengers in the side car and (8) maximum technically permissible mass declared by the manufacturer.

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Category	Category name	Common classification criteria
L5e	Powered tricycle	<p>(4) three wheels and powered by a propulsion as listed under Article 4(3) and</p> <p>(5) mass in running order $\leq 1\ 000$ kg and</p> <p>(6) three-wheel vehicle that cannot be classified as a L2e vehicle and</p>
Sub-categories	Subcategory name	Supplemental sub-classification criteria
L5e-A	Tricycle	<p>(7) L5e vehicle other than those complying with the specific classification criteria for a L5e-B vehicle and</p> <p>(8) with a maximum of five seating positions, including the seating position of the driver.</p>
L5e-B	Commercial tricycle	<p>(7) designed as a utility vehicle and characterised by an enclosed driving and passenger compartment accessible by maximum three sides and</p> <p>(8) equipped with a maximum of two seating positions, including the seating position for the driver and</p> <p>(9) exclusively designed for the carriage of goods with an open or enclosed, virtually even and horizontal loading bed that</p>

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		<p>meets the following criteria:</p> <p>(a)</p> <p>(b) or an equivalent loading bed area as defined above designed to install machines and/or equipment and</p> <p>(c) designed with a loading bed area which is clearly separated by a rigid partition from the area reserved for the vehicle occupants and</p> <p>(d) the loading bed area shall be able to carry a minimum volume represented by a 600 mm cube.</p>
Category	Category name	Common classification criteria
L6e	Light quadricycle	(4) four wheels and powered by a propulsion as listed under Article 4(3) and

length_{loading bed} ×

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		<p>(5) maximum design vehicle speed ≤ 45 km/h and</p> <p>(6) the mass in running order ≤ 425 kg and</p> <p>(7) engine capacity ≤ 50 cm³ if a PI engine or engine capacity ≤ 500 cm³ if a CI engine forms part of the vehicle's propulsion configuration and</p> <p>(8) equipped with a maximum of two seating positions, including the seating position for the driver and</p>
Sub-categories	Subcategory name	Supplemental sub-classification criteria
L6e-A	Light on-road quad	<p>(9) L6e vehicle not complying with the specific classification criteria for a L6e-B vehicle and</p> <p>(10) maximum continuous rated or net power ⁽¹⁾ ≤ 4 000 W.</p>
L6e-B	Light quadri-mobile	<p>(9) enclosed driving and passenger compartment accessible by maximum three sides and</p> <p>(10) maximum continuous rated or net power ⁽¹⁾ ≤ 6 000 W and</p>
Sub-sub-categories	Sub-subcategory name	Sub-sub-classification criteria in addition to the sub-classification criteria of a L6e-B vehicle
L6e-BP	Light quadri-mobile for passenger transport	<p>(11) L6e-B vehicle mainly designed for passenger transport and</p>

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		(12) L6e-B vehicle other than those complying with the specific classification criterion for a L6e-BU vehicle.
L6e-BU	Light quadri-mobile for utility purposes	(11) exclusively designed for the carriage of goods with an open or enclosed, virtually even and horizontal loading bed that meets the following criteria: (a) length_{loading bed} × (b) or an equivalent loading bed area as defined above in order to install machines and/or equipment and (c) designed with a loading bed area which is clearly separated by a rigid partition from the area reserved for the vehicle occupants and (d) the loading bed area shall be able to

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		carry a minimum volume represented by a 600 mm cube.
Category	Category name	Common classification criteria
L7e	Heavy quadricycle	<p>(4) four wheels and powered by a propulsion as listed under Article 4(3) and</p> <p>(5) mass in running order:</p> <p>(a) ≤ 450 kg for transport of passengers;</p> <p>(b) ≤ 600 kg for transport of goods.</p> <p>and</p> <p>(6) L7e vehicle that cannot be classified as a L6e vehicle and</p>
Sub-categories	Subcategory name	Supplemental sub-classification criteria
L7e-A	Heavy on-road quad	<p>(7) L7e vehicle not complying with the specific classification criteria for a L7e-B or a L7e-C vehicle and</p> <p>(8) vehicle designed for the transport of passengers only and</p> <p>(9) maximum continuous rated or net power ⁽¹⁾ ≤ 15 kW and</p>
Sub-Sub categories	Sub-Sub category name	Supplemental sub-classification criteria
L7e-A1	A1 heavy on-road quad	<p>(10) maximum two straddle seating positions, including the seating position for the rider and</p>

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		(11) handlebar to steer.
L7e-A2	A2 heavy on-road quad	(10) L7e-A vehicle not complying with the specific classification criteria for a L7e-A1 vehicle and (11) maximum two non-straddle seating positions, including the seating position for the driver.
Sub-category	Subcategory name	Supplemental sub-classification criteria
L7e-B	Heavy all terrain quad	(7) L7e vehicle not complying with the specific classification criteria for a L7e-C vehicle and (8) ground clearance ≥ 180 mm and
Sub-Sub categories	Sub-Sub category name	Supplemental sub-classification criteria
L7e-B1	All terrain quad	(9) maximum two straddle seating positions, including the seating position for the rider and (10) equipped with a handlebar to steer and (11) maximum design vehicle speed ≤ 90 km/h and (12) wheelbase to ground clearance ratio ≤ 6 .
L7e-B2	Side-by-side buggy	(9) L7e-B vehicle other than a L7e-B1 vehicle and (10) maximum three non-straddle seats of which two positioned side-by-side, including the seating position for the driver and (11) maximum continuous rated or

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		(12) net power ⁽¹⁾ ≤ 15 kW and wheelbase to ground clearance ratio ≤ 8.
Sub-category	Subcategory name	Supplemental sub-classification criteria
L7e-C	Heavy quadri-mobile	(7) L7e vehicle not complying with the specific classification criteria for a L7e-B vehicle and (8) maximum continuous rated or net power ⁽¹⁾ ≤ 15 kW and (9) maximum design vehicle speed ≤ 90 km/h and (10) enclosed driving and passenger compartment accessible via maximum three sides and
Sub-sub-categories	Sub-subcategory name	Sub-sub-classification criteria in addition to the sub-classification criteria of a L7e-C vehicle
L7e-CP	Heavy quadri-mobile for passenger transport	(11) L7e-C vehicle not complying with the specific classification criteria for a L7e-CU vehicle and (12) maximum four non-straddle seats, including the seating position for the driver.
L7e-CU	Heavy quadri-mobile for utility purposes	(11) exclusively designed for the carriage of goods with an open or enclosed, virtually even and horizontal loading bed that meets the following criteria: (a)

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		<p style="text-align: right;">length_{loading bed} ×</p> <p>(b) or an equivalent loading bed area as defined above designed to install machines and/or equipment and</p> <p>(c) designed with a loading bed area which is clearly separated by a rigid partition from the area reserved for the vehicle occupants and</p> <p>(d) the loading bed area shall be able to carry a minimum volume represented by a 600 mm cube and</p> <p>(12) maximum two non-straddle seats, including the seating position for the driver.</p>
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NB: refer to the end of Annex VIII for an overview of the notes to the Annexes.

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