





**Annex B:
L-category Vehicle Classification**



Table 6: Sub-category overview and examples¹

Vehicle Type	Common Sub-categories	Common Technical Detail	Other Common Specifications
L1 – Light two-wheel powered vehicle 	L1e-A: Powered Cycle	<ul style="list-style-type: none"> • 2, 3 or 4 wheels • Pedals • Power less than or equal to 1000W • Type Approval required • Power assist cuts off at 15.5mph 	<ul style="list-style-type: none"> • Rider must wear a motorcycle helmet • Subject to VED, MoT & insurance • Registered and carry a number plate <p>NB L1e vehicles can look similar to sub-250w electric bicycles, which can result in exploitation of the regulations</p>
	L1e-B: Two-wheel moped	<ul style="list-style-type: none"> • Two wheels • Up to 50cc if Positive Ignition Combustion Engine or Power up to 4kW • Pedelects capable of more than 25km/h (15.5 mph) • Maximum speed 28mph 	<ul style="list-style-type: none"> • Rider must wear a motorcycle helmet • Subject to VED, MoT & insurance • Registered and carry a number plate • 3 or 4 wheelers are permitted in this category, but only in the case of “twin wheel” vehicles, where two wheels mounted on the same axle have a distance between the centres of their areas of contact with the ground equal to, or less than, 460mm

¹ The L-category graphics in this table have provided by the Motorcycle Industry Association

			NB L1e vehicles can look similar to sub-250w electric bicycles, which can result in exploitation of the regulations
L2 – Three-wheel moped 		<ul style="list-style-type: none"> • 3 wheels* / 1 or 2 seats • Mass (in running order) of up to 270kg • Up to 50cc Positive Ignition combustion engine or up to 500cc if Compression Ignition • 4kW power limit, irrespective of propulsion type • Maximum speed 28mph 	<ul style="list-style-type: none"> • *4 wheelers are permitted in this category, but only in the case of “twinning wheel” vehicles, where two wheels mounted on the same axle have a distance between the centres of their areas of contact with the ground equal to, or less than, 460mm • There are further sub-categories depending on whether the vehicle is for passenger or utility transport
L3 – Two-wheel motorcycle 	L3e-A1: Low-performance motorcycle	<ul style="list-style-type: none"> • 2 wheels* • Motorcycle or scooter up to 125cc and 11kW power, with a power:weight ratio of up to 0.1kW/kg 	<ul style="list-style-type: none"> • *3 or 4 wheelers are permitted in this category, but only in the case of “twinning wheel” vehicles, where two wheels mounted on the same axle have a distance between the centres of their areas of contact with the ground equal to, or less than, 460mm
	L3e-A2: Medium-performance motorcycle	<ul style="list-style-type: none"> • 2 wheels* • Motorcycle or scooter up to 35kW power, with a power:weight ratio of up to 0.2kW/kg 	<ul style="list-style-type: none"> • *3 or 4 wheelers are permitted in this category, but only in the case of “twinning wheel” vehicles, where two wheels mounted on the same axle have a distance between the centres of their areas of contact with the ground equal to, or less than, 460mm

	<p>L3e-A3: High-performance motorcycle</p>	<ul style="list-style-type: none"> • 2 wheels* • Technical Regs (per No 168/2013 below) 	<ul style="list-style-type: none"> • *3 or 4 wheelers are permitted in this category, but only in the case of “twin wheel” vehicles, where two wheels mounted on the same axle have a distance between the centres of their areas of contact with the ground equal to, or less than, 460mm • Any L3e vehicle that cannot be classified as L3e-A1 or L3e-A2 • There are also further sub-subcategories of enduro (L3e-AxE where x=1, 2 or 3) and trials (L3e-AxT where x=1, 2 or 3) motorcycles
<p>L4 – Two-wheel motorcycle with sidecar</p> 		<ul style="list-style-type: none"> • 3 wheels • As L3e plus sidecar 	<ul style="list-style-type: none"> • L4e vehicles supplied for use on UK roads must have the sidecar fitted to the left of the bike (i.e. next to the kerb)

<p>L5 – Powered tricycle</p> 		<ul style="list-style-type: none"> • 3 wheels* • Cannot be classified as an L2e vehicle • Mass (in running order) of up to 1000kg • Max 5 seats (2 for commercial trikes) 	<ul style="list-style-type: none"> • *4 wheelers are permitted in this category, but only in the case of “tinned wheel” vehicles, where two wheels mounted on the same axle have a distance between the centres of their areas of contact with the ground equal to, or less than, 460mm • There are further sub-categories depending on whether the vehicle is for passenger or utility transport
<p>L6 – Light quadricycle</p> 	<p>L6e-A: Light on-road quad</p>	<ul style="list-style-type: none"> • 4 wheels • Mass running order up to 425kg • Max engine capacity 50cc (Positive Ignition) or 500cc (Compression Ignition) • Maximum power 4kW • Max speed 28mph 	
	<p>L6e-BP / L6e-BU: Light quadri-mobile for passenger transport / Light quadri-mobile for</p>	<ul style="list-style-type: none"> • 4 wheels, max 2 seats, enclosed passenger compartment • Mass running order up to 425kg • Max engine capacity 50cc (Positive Ignition) or 500cc (Compression Ignition) • Maximum power 6kW 	


	utility purposes	<ul style="list-style-type: none"> • Max speed 28mph 	
L7 – Heavy quadricycle 	L7e-A: Heavy on-road quad	<ul style="list-style-type: none"> • 4 wheels • L7e-A1: Max 2 straddle seats & handlebar steer • L7e-A2: Max 2 non-straddle seats • Maximum power 15kW • Mass (in running order) up to 450kg 	
	L7e-C: Heavy quadri-mobile	<ul style="list-style-type: none"> • 4 wheels • Enclosed passenger compartment • L7e-CP (passenger): Max 4 non-straddle seats, mass in running order up to 450kg • L7e-CU (utility): Max 2 non-straddle seats plus load area, mass in running order up to 600kg • Maximum power 15kW • Maximum design speed 56mph 	<ul style="list-style-type: none"> • There is also a further L7 sub-category (L7eB) for heavy all-terrain quads

Table 7: Retained Regulation No 168/2013

Category	Category name	Common classification criteria
L1e-L7e	All L-category vehicles	(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 (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 (3) height \leq 2 500 mm and

Category	Category Name	Common classification criteria
L1e	Light two-wheel powered vehicle	(4) two wheels and powered by a propulsion as listed under Article 4(3) and (5) engine capacity \leq 50 cm ³ if a PI internal combustion engine forms part of the vehicle's propulsion configuration and (6) maximum design vehicle speed \leq 45 km/h and (7) maximum continuous rated or net power ⁽¹⁾ \leq 4 000 W and (8) maximum mass = technically permissible mass declared by the manufacturer and

Sub-categories	Sub-category name	Supplemental sub-classification criteria
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 ≤ 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 ≤ 50 cm³ if a PI internal combustion engine or engine capacity ≤ 500 cm³ if a CI combustion engine forms part of the vehicle's propulsion configuration and</p> <p>(6) maximum design vehicle speed ≤ 45 km/h and</p> <p>(7) maximum continuous rated or net power ⁽¹⁾ $\leq 4\ 000$ 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	Sub-category 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) $length_{loading\ bed} \times width_{loading\ bed} \geq 0,3 \times length_{vehicle} \times maximum\ width_{vehicle}$</p> <p>or</p> <p>(b) an equivalent loading bed area as defined above in order 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
L3e	Two-wheel motorcycle	<p>(4) two wheels and powered by propulsion as listed under Article 4(3) and</p> <p>(5) maximum mass = technically permissible mass declared by the manufacturer and</p> <p>(6) two-wheel vehicle that cannot be classified as category L1e.</p>

Sub-categories	Sub-category name	Supplemental sub-classification criteria
L3e-A1	Low-performance motorcycle	(7) engine capacity $\leq 125 \text{ cm}^3$ and (8) maximum continuous rated or net power $(^1) \leq 11 \text{ kW}$ and (9) power $(^1)$ /weight ratio $\leq 0,1 \text{ kW/kg}$.
L3e-A2	Medium-performance motorcycle	(7) maximum continuous rated or net power $(^1) \leq 35 \text{ kW}$ and (8) power $(^1)$ /weight ratio $\leq 0,2 \text{ kW/kg}$ 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 $\geq 900 \text{ mm}$ and (b) ground clearance $\geq 310 \text{ mm}$ 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 electric propulsion $\leq 140 \text{ kg}$ and

		(e) no seating position for a passenger.
L3e-AxT (x = 1, 2 or 3)	Trial motorcycles	(a) seat height \leq 700 mm and (b) ground clearance \geq 280 mm and (c) fuel tank capacity \leq 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 \leq 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 mass = technically permissible mass declared by the manufacturer.

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	Sub-category 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 meets the following criteria:</p> <p>(a) $length_{loading\ bed} \times width_{loading\ bed} \geq 0,3 \times length_{vehicle} \times width_{vehicle}$</p> <p>or</p> <p>(b) 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>
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Category	Category Name	Common classification criteria
L6e	Light quadricycle	<p>(4) four wheels and powered by a propulsion as listed under Article 4(3) and</p> <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	Sub-category 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⁾ $\leq 4\ 000$ 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⁾ $\leq 6\ 000$ 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	(11) L6e-B vehicle mainly designed for passenger transport and (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) $length_{loading\ bed} \times width_{loading\ bed} \geq 0,3 \times length_{vehicle} \times width_{vehicle}$ or (b) 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 carry a minimum volume represented by a 600 mm cube.

Category	Category Name	Common classification criteria
L7e	Heavy quadricycle	(4) four wheels and powered by a propulsion as listed under Article 4(3) and (5) mass in running order:

		<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	Sub-category 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-subcategory name	Sub-sub-classification criteria in addition to the sub-classification criteria of an L7e-A vehicle
L7e-A1	A1 heavy on-road quad	<p>(10) maximum two straddle seating positions, including the seating position for the rider and</p> <p>(11) handlebar to steer.</p>
L7e-A2	A2 heavy on-road quad	<p>(10) L7e-A vehicle not complying with the specific classification criteria for a L7e-A1 vehicle and</p> <p>(11) maximum two non-straddle seating positions, including the seating position for the driver.</p>
Sub-categories	Sub-category 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-subcategory name	Sub-sub-classification criteria in addition to the sub-classification criteria of an L7e-B vehicle
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 net power ⁽¹⁾ ≤ 15 kW and (12) wheelbase to ground clearance ratio ≤ 8 .
Sub-categories	Sub-category 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

		<p>(9) maximum design vehicle speed ≤ 90 km/h and</p> <p>(10) enclosed driving and passenger compartment accessible via maximum three sides and</p>
Sub-sub-categories	Sub-subcategory name	Sub-sub-classification criteria in addition to the sub-classification criteria of an L7e-C vehicle
L7e-CP	Heavy quadrimobile for passenger transport	<p>(11) L7e-C vehicle not complying with the specific classification criteria for a L7e-CU vehicle and</p> <p>(12) maximum four non-straddle seats, including the seating position for the driver.</p>
L7e-CU	Heavy quadrimobile for utility purposes	<p>(11) 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) $length_{loading\ bed} \times width_{loading\ bed} \geq 0,3 \times length_{vehicle} \times width_{vehicle}$</p> <p>or</p> <p>(b) 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>

		(12) maximum two non-straddle seats, including the seating position for the driver
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