

TOYOTA PROACE CITY ELECTRIC

- Proace City Electric extends Toyota's range of zero-emission battery electric light commercial vehicles
- Highly competitive new model ideal for businesses requiring access to urban ultra-low and zero emission zones
- Class-leading motor and battery power
- Class-leading payload up to 800kg and across-the-board 750kg towing capacity
- Powered by 134bhp/100kW electric motor with 50kWh lithium-ion battery
- WLTP EV driving range of up to 168 miles
- Eligible for Government-funded Plug-in Van Grant, promoting the uptake of zero emission vehicles

The new Proace City Electric marks a significant expansion of the Toyota Professional electrified light commercial vehicle (LCV) line-up, giving the brand a strong contender in the high-volume compact van segment.

This is Toyota's second all-electric LCV, following the introduction of the Proace Electric medium duty van earlier this year. It is available in standard L1 (4.4m) and long L2 (4.75m) wheelbase forms.

Its practicality for work is not compromised by its EV powertrain: it matches the load capacity of the Proace City ICE models, with up to 4.4m³, plus an 800kg payload and 750kg towing capacity that equal the best in its EV class.

The new model is ideally suited to fleet and small businesses who need capable, reliable transport they can use to access the increasing number of urban low and zero-emission zones, and for customers keen to reduce the environmental impact of their business. It also provides a valuable option to support business tender applications which specify the use of zero emission vehicles.

Even before the new model has reached the UK's roads, it has earned the coveted *What Car?* and *What Van?* Van of the Year awards, while it shares all the load-carrying virtues of the ICE Proace City, named "Best Small Van" in the Parkers Awards.

Proace City Electric thus has great potential to help Toyota achieve its target of a powertrain mix of more than 10 per cent zero emission vehicles in Europe by 2025.

Powertrain and performance

Proace City Electric is powered by a 134bhp/100kW electric motor, driving the front wheels. The powertrain also features a lithium-ion battery, integrated DC/DC charger/converter, high-voltage (HV) connection box, inverter and reductor.

The lithium-ion battery is located beneath the load compartment floor, avoiding intrusion in the cargo space. With 216 cells organised in 18 modules, it has a 50kWh capacity. This enables a driving range of between up to 168 miles (WLTP data) when fully charged, and a top speed of 83mph. In Power mode, acceleration from 0-62mph can be accomplished in 11.2 seconds, and from 50 to 75mph in 8.9 seconds.

Efficient charging options

Proace City Electric is equipped as standard with a 7kW single-phase on-board charger (OBC), or can be optionally specified with an 11kW tri-phase charger. Type 2 cables for connection to a domestic power supply or a wallbox charging system are also supplied.

With the 7kW OBC, a full battery charge can be accomplished using a wallbox in 7.1 hours. With the three-phase 11kW OBC, this can be reduced to 4.5 hours. When the vehicle is connected to a public or business 100kW DC fast charger, an 80 per cent charge can be achieved in just 30 minutes.

Charging status is indicated by a lighting system around the inlet socket, located in the rear left-side wing. When the cover is opened and the cable is attached, white illumination signals the vehicle is in stand-by mode, ready for charging to start; when charging is in progress, this changes to a green flashing light, then solid green when charging is complete. A red light indicates there is a defect or problem; a blue light indicates that a charging session has been scheduled.

Battery cooling

Effective battery temperature management is key to maintaining performance and driving range, in cold and hot conditions. Proace City Electric's lithium-ion battery uses a glycol water-cooling system that is refreshed by a cold loop device and warmed by an electric heater. This helps maintain battery charging time and efficiency and ensures optimal battery performance across a wide temperature spectrum, from -40 to +55°C.

E-toggle and Drive Mode Selector

In place of a gear shift, Proace City Electric has an e-toggle control on the centre console to engage Park and select Drive, Neutral and Reverse. There is also a "B" switch to gain

additional regenerative braking energy to help charge the battery each time the driver takes their foot off the accelerator pedal.

Eco, Normal and Power drive modes can be selected using a switch alongside the e-toggle, to suit the driver's preference, the load being carried and the driving conditions. In each mode, the motor's power and torque are adjusted; in Power and Eco modes the throttle mapping is also changed. Peak output in Power mode is 100kW with 260Nm of torque; in Normal the output is 80kW with 210Nm; and in Eco (appropriate when carrying heavy loads), the levels are reduced to 60kW and 180Nm.

An electronic parking brake is also fitted as standard.

Practicality assured

The introduction of battery electric power doesn't compromise Proace City's practicality. The load space extends to 4.4m³ with the benefit of the clever Smart Cargo system, fitted as standard to all versions. This provides extra storage capacity with the combination of a folding passenger bench mechanism and through-loading facility.

Equalling the best in its class, Proace City Electric's maximum payloads are 800kg for the standard wheelbase version (L1) and 750kg for the long wheelbase model (L2); both vans can tow braked and unbraked loads of up to 750kg – again class-leading performance.

To help make the most of the van's cargo space, Proace City Electric comes with twin sliding side doors as standard, with generously proportioned openings.

Model range and equipment

The Proace City Electric is introduced in a single Icon grade version, with specifications mirroring those of the diesel-powered model.

Key features include front and rear parking sensors and a reversing camera with steering guidelines, adding to Proace City Electric's nimble, urban-friendly character.

The Smart Cargo system is provided as standard (see above), increasing the usable load space and also providing a handy office work space with the passenger seatback folding down to create a desk surface.

The specification includes automatic headlights and wipers, heated and power-adjustable door mirrors, sliding load space doors on both sides of the vehicle, cruise control and a colour 3.5-inch multi-information display. The multimedia system is controlled using an eight-inch touchscreen; it includes smartphone integration with Apple CarPlay or Android Auto, DAB reception and Bluetooth. Two USB ports are provided for connecting personal devices.

Accessory options include rubber floor mats and ply lining for the load space.

Grant eligibility

At the time of launch, Proace City Electric customers can take advantage of the Government-funded Plug-in Van Grant (PiVG). This discount, administered by the Office for Zero Emission Vehicles, covers 35 per cent of the vehicle's purchase price, up to a maximum £2,500. Details and terms and conditions are provided at www.gov.uk/government/publications/plug-in-van-grant.

Toyota Relax up to 10 years' warranty

The Toyota Proace City Electric has a unique advantage over its competitors with the Toyota Relax Warranty.

As with all new Toyota LCVs and cars, it comes with up to 10 years' Toyota Relax warranty cover. After an initial three years/60,000 miles, owners can extend their warranty by a further one year/10,000 miles each time they have their van serviced at an authorised Toyota centre, in line with its service schedule. The warranty is provided at no extra cost, up to a limit of 10 years/100,000 miles. Terms and conditions apply; full details are available at Toyota.co.uk.

Further peace of mind is provided by an additional eight-year/100,000-mile warranty for Proace City Electric's lithium-ion battery.

TOYOTA PROACE CITY ELECTRIC TECHNICAL SPECIFICATIONS

DRIVETRAIN			
Electric motor			
Type		Permanent magnet, synchronous motor	
Max. voltage		454	
Max. power (bhp/DIN hp/Kw)	Power	134/136/100	
	Normal	108/110/80	
	Eco	81/82/60	
Max. torque (Nm)	Power	260	
	Normal	210	
	Eco	180	
Battery			
Type		Lithium-ion	
Total capacity (kWh)		50	
Number of cells		216	
Number of modules		18	
Weight (kg)		340	
Battery charging		7kW OBC	11kW OBC
Charging time	Domestic socket	30.5hr	30.5hr
	Wallbox	7.1hr	4.5hr
	Fast charge	30min	30min
Connector type	AC input (normal use)	Type 2	
	DC input (quick charge)	CCS2 (Combo02)	
Maximum AC charge rate (kWh)		11	
TRANSMISSION			
Type		Automatic	
Driven wheels		Front	
Differential gear ratio		0.279	
PERFORMANCE			
0-62mph (sec)*		11.2	
Max. speed (mph)*		84	
Driving range (miles, WLTP)		Up to 168	
BRAKES			
Front		Ventilated discs	
Rear		Solid discs	
STEERING			
Type		Rack and pinion	
Turning circle	Tyre (m)	6.2	
	Body (m)	6.45	
SUSPENSION			
Front		MacPherson strut-type	
Rear		Deformable cross-beam	
EXTERIOR DIMENSIONS			
		L1	L2
Overall length (mm)		4,403	4,753
Overall width (mm)		1,884	

Overall height (mm)	1,880	
Wheelbase (mm)	2,785	2,975
Front track (mm)	1,548	1,553
Rear track (mm)	1,568	1,549
Front overhang (mm)	892	
Rear overhang (mm)	726	886
LOAD AREA DIMENSIONS	L1	L2
Floor load length with Smart Cargo (mm)	3,090	3,440
Max. load height (mm)	1,200	
Max. load width between sides (mm)	1,527	
Max. load width between wheel arches (mm)	1,229	
Sliding side door max. opening height (mm)	1,072	
Sliding side door max. opening width (mm)	675	
Rear doors max. opening height (mm)	1,075	
Rear doors max. opening width (mm)	1,087	
Load area volume with Smart Cargo (m ³)	3.8	4.4
WEIGHTS	L1	L2
Gross vehicle weight (kg)	2,410	2,400
Kerb weight min-max (kg)	1,607-1,787	1,649-1,837
Max. payload (kg)	803	751
Towing capacity – braked & unbraked (kg)	750	
WHEELS & TYRES		
Wheels	16in steel	
Tyres	215/65R16	

TOYOTA PROACE CITY ELECTRIC EQUIPMENT SPECIFICATIONS

SAFETY	ICON
ABS with Electronic Brakeforce Distribution and Brake Assist	✓
Vehicle Stability Control	✓
Hill-start Assist Control	✓
Downhill Assist Control	✓
Tyre Pressure Warning System	✓
Airbags (x6)	✓
Adjustable speed limiter	✓
eCall	✓
STORAGE	ICON
Storage box in floor	✓
Open upper dashboard storage space	✓
Smart Cargo system	✓
CARGO AREA	ICON
Cargo area lighting	✓
Panel-style bulkhead	✓
Load hooks (x6)	✓
Rubber floor covering	✓
Ply lining	Accessory opt
In-floor storage box	✓
AUDIO, MULTIMEDIA & CONNECTIVITY	ICON
8in Pro-Touch multimedia system	✓
2-speaker audio system	✓
DAB	✓
Auxiliary audio switches	✓
Bluetooth	✓
USB port (x2)	✓
EV multi-information display – colour	✓
3.5-inch multi-information display	✓
Smartphone integration via Apple CarPlay/Android Auto	✓
COMFORT & CONVENIENCE	ICON
Rubber floor mats	Accessory opt
Manual air conditioning with pollen filter	✓
Power windows	✓

Automatic wipers	✓
Automatic headlights	✓
Front and rear parking sensors	✓
Reversing camera	✓
Central locking with remote key	✓
Charging cables for use with domestic and wallbox power supplies	✓
CONTROLS	ICON
Analogue speedometer	✓
Electronic parking brake	✓
Cruise control	✓
On-board charger – 7kW	✓
On-board charger – 11kW	Opt
SEATING & TRIM	ICON
Driver's seat and two-passenger front bench with Smart Cargo system	✓
Driver's arm rest	✓
Fabric seat upholstery	✓
Driver's seat height and lumbar adjustment	✓
Passenger bench slide and recline functions	✓
Folding passenger bench back rest	✓
Adjustable headrests	✓
EXTERIOR	ICON
Side protection mouldings	✓
Sliding side rear doors (x2)	✓
Rear panel 180-degree swing-out doors	✓
Power-adjustable, retracting, heated door mirrors	✓
Privacy glass	✓
Roof rails	✓
Front fog lights	✓
Daytime running lights	✓
16in steel wheels with wheel caps	✓
Full-size spare wheel	✓
Tow bar	Opt

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