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Renault TWIZY

Press Information



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Twizy: At a glance

- Renault Twizy is a two-seater, compact electric vehicle with zero-emissions in use – like nothing else on the road today
- The third of Renault's industry-leading Z.E. (Zero Emissions in use) vehicles to launch, following Kangoo Van and Fluence
- Sits in the Renault Z.E. range alongside ZOE, Kangoo van Z.E. 33 and Master van Z.E.
- Comfortable, safe, easy to drive and ideal for urban and suburban driving. It even has rural potential, eliminating the need to visit often far-flung fuel stations
- Tandem seating arrangement, with passenger accommodated behind the driver
- Powertrain is 17hp electric motor, automatic transmission and rechargeable lithium-ion battery pack, giving an official urban driving NEDC range of 56 miles and a top speed limited to 50mph
- Simple battery recharging process uses standard-fit extending cable with three-pin plug housed under front flap, connecting with standard domestic or workplace electricity supply. Full charge takes about 3.5 hours
- Cost-efficient battery hire scheme, tailored to customer mileage and preferred contract term, offering value for money and peace of mind
- Three trim levels: Expression, Dynamique and Cargo – the latter a single-seat car-derived van with a 180-litre, 75kg load area
- Wide range of options and accessories, including scissor doors, removable windows, clear sky roof (UV filter), child booster seat, coloured alloy wheels and vehicle wraps
- 'Design Your Own Twizy' wraps allow customers to choose from a selection of existing designs or create their own bespoke version
- Excellent safety, with built-in front deformable structure, side protection rails, disc brakes and driver's airbag
- Dedicated servicing and maintenance through Renault's national network of dealers and service centres



Design

There's nothing else like the Twizy on the road. It was designed from the wheels up as a new concept in urban transport – a compact all-electric vehicle that's ideal for the cut and thrust of city and suburban driving. Emissions-free in use, safe, comfortable and easy to drive, it once again shows Renault setting the agenda in forward-thinking design and engineering.

In little more than two years the Twizy (a name that captures the idea of 'two' and 'easy') was brought from concept to reality, with key input from Renault Sport Technologies into chassis, driving dynamics and clever regenerative braking technology.

Arguably the world's coolest commercial vehicle was unveiled in 2013 with the appearance of the single-seat Twizy Cargo. Swapping the rear seat for a lockable 180-litre, 75kg boot, creates a vehicle perfect for business use. The Cargo is classed as a car-derived van by HM Revenue and Customs, so the VAT is recoverable, and it is exempt from the Central London Congestion Charge. When wearing a business livery, its distinctive looks make it an effective mobile advertising unit.



Exterior – fun and functional

Its curvy structure and wheel-at-each-corner design may look avant-garde, but the Twizy is highly practical. Its overall length is just 2.34m, the width 1.24m, allowing the Twizy to slot neatly into parking spaces too tight for other four-wheeled vehicles.

The unbroken curve of the panoramic windscreen into the roof and side wind deflectors create good protection from the elements, as well as excellent visibility, but owners can specify a 'clear sky roof' for an even better all-round view.

Expression versions of the Twizy are fitted with grey Snowflake wheel trims; 13-inch Diamond gloss alloys feature on the Dynamique model.

Renault's 'Design Your Own Twizy' wraps allow customers to choose from a selection of existing designs (including animal prints or weather patterns), or to create a bespoke design for all or part of the vehicle.

Doors and windows are both available as options to give further protection from the British climate. The doors open with a scissor action – ideal in narrow parking spots. The windows can be fitted in minutes. The ingenious system comes in two parts – a rigid metal frame which attaches to the door and a flexible, transparent 'window', which fastens to the frame by means of a zip.

An opening within the window provides access to the door handle and enables the transparent panel to be opened or closed. Two slits in the panel – one at the front and the other at the rear – ensure a sufficient flow of air to prevent the interior from misting up.

The windows require just one tool to fit, require no bodywork modification and can easily be removed by the owner if they fancy some fresh air.

As part of Renault's ongoing attention to quality, the system has been extensively tested to ensure its resistance to UV light, corrosion and cold temperatures.



Design your own Twizy

Twizy people are not shrinking violets. That's why Renault has introduced Design Your Own Twizy; making the most of Twizy's ability to stand out from the crowd like no other car.

Standard colour options

White
Black
Yellow
Dark Yellow
Orange
Red
Soft Red
Burgundy
Green
Dark Green
Light Blue
Blue
Dark Blue
Light Grey
Grey
Dark Grey
Metallic Silver
Metallic Gold
Metallic Grey
Metallic Black

Flags


UK

ENGLAND

SCOTLAND

WALES

FRANCE

USA

Patterns


DAISIES

ROSES

HIPPY

PAISLEY

MANGO

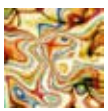
PERSIAN

Art


SPRAY PAINT

TRAVEL

SCRIBBLE

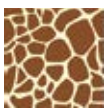
PSYCHEDELIA

LAVA

GRAFFITI

Animals


PINK LEOPARD

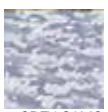
LEOPARD

JAGUAR

GIRAFFE

ZEBRA

TIGER

Camo


BROWN CAMO

GREY CAMO

BLUE CAMO

YELLOW CAMO

PURPLE CAMO

GREEN CAMO

This is the ultimate in personalisation; as well as a huge range of colours, owners can also choose from patterns and designs to make their Twizy truly their own. With the new website configurator (www.renault.co.uk/dyot), owners will be able to see exactly what their Twizy will look like before ordering.

It doesn't end there. Lots of businesses are making the most of Twizy's ability to stand out and be noticed. The 'Do Your Own Thing' option within Design Your Own Twizy allows them to make sure their vehicle reflects their business as fully as possible; wraps can include business names and images so the possiblities are limited only by imagination.

Body wrap options



Option 1 Door only



Option 2 Door and frame



Option 3 Door, frame rear and front



Option 4 Full wrap with owner's design

Interior – no space wasted

The Twizy's driver and passenger in the Expression and Dynamique models sit in tandem rather than side-by-side. The driver's seat can also be adjusted to achieve the best driving position. Both seats are comfortable, with integrated headrests, and they are covered in waterproof upholstery.

The instrumentation is clear and simple, with displays for drive, speed, driving range and battery charge. There's also a display giving an 'eco-score' for each journey, further signalling the Twizy's environmental efficiency.

Although the cabin is compact, no space is wasted. Two gloveboxes are provided – one can be locked – and a handy 31-litre storage point behind the rear seat in the two-seater versions. With just the driver on board, this space can be increased to 50 litres with the optional leisure bag, designed to clip on to the chassis so items can be stored safely. Storage nets hold smaller items.

Twizy owners can also order an optional motorcycle-style blanket for the driver and passenger for extra warmth and comfort.










D
R

Twizy Cargo

In the Cargo, the rear seat has been removed to leave a 180-litre boot capable of carrying a 75kg payload ideal for 'final mile' deliveries from depots or railway stations, and equally suitable for local food delivery companies or urban trades people who need to carry tools. The Twizy Cargo's equipment is based on the Expression trim.





Technologies

The Twizy comes complete with a three-metre extending spiral cable with an integrated charger, stored beneath a handy flap at the front of the vehicle. Recharging is simple, using a standard three-pin plug to connect the vehicle to any 220V 10A domestic or workplace electricity supply. A full recharge takes 3.5 hours, and could cost as little as £1-£1.50, depending on the energy tariff. The Twizy can also be charged at roadside charging points.

Thanks to the regenerative braking system, energy is recovered by the EV system every time the vehicle slows.

A Garmin sat-nav and a Parrot MK9100 Bluetooth® kit are both optional. This unique Bluetooth® hands-free kit includes wireless remote control and colour display, voice synthesiser and voice recognition requiring no pre-programming, plus MP3 iPod connectivity.







Safety

Being a four-wheeled vehicle – classed as a heavy quadricycle – Twizy is inherently more stable and offers greater protection than a scooter or motorcycle. Its height and curvy shape make it much more visible to other road users.

Disc brakes all round and a low centre of gravity give good stopping power and fundamental stability.

At the front, a deformable structure provides protection in the event of a collision, while the outboard wheels and lateral beams either side of the chassis give side protection.

The driver is held securely in a four-point seatbelt, with a three-point belt for the passenger, and in the event of a front-end collision a driver's airbag deploys. The front seat also has an anti-submarining design.











Powertrains, Chassis and Driving Dynamics

Motor and battery

The Twizy is powered by a rear-mounted 17hp (13kW) motor and a compact and lightweight 6.1kWh lithium-ion battery, located underneath the front seat. Keeping the kerb weight down to a trim 474kg, including the 100kg battery pack, has helped deliver an official NEDC combined cycle driving range of 56 miles. This translates to around 43 miles in temperate conditions and 31 in the extreme cold, which is ample for the majority of everyday commuting journeys or local deliveries. Because it is powered purely by electricity, Twizy produces no tailpipe emissions and runs almost silently.

Driving through a one-speed reduction gear automatic transmission, the Twizy can reach a (limited) top speed of 50mph. This might sound modest, but the Twizy is no slouch. Because its maximum 57Nm (42lb ft) of torque is delivered straight from start-up, it has a quick-off-the-mark driving character, made even more fun by its responsive steering. The direct-rack system requires just 2.8 turns lock to lock, and the turning circle between kerbs is a city-friendly 6.8m.

A bespoke suspension set-up features MacPherson-type struts and anti-roll bars front and rear, with coil springs, for enjoyable handling with a comfortable ride.

Twizy's 13-inch wheels contribute to the vehicle's reassuring stability and grip, and they are fitted with Continental eContact tyres.125/80R13 at the front and wider 145/80R13 at the rear.



Technology from Renault Sport Racing

Renault made good use of the technology skills of the Renault Sport Racing Formula One Team in developing its new electric powertrain for the Twizy. Their experience, in particular with the KERS regenerative braking system used in Grand Prix racing, and their testing facilities were invaluable, given the short development time for the vehicle and the lack of previous in-house experience with the motor specified for Twizy.

The system was tested at the Renault Sport Technologies facility at Vitry-Châtillon, applying motorsport processes. The test programme benefitted from the expertise and knowledge sharing between the engineering teams, and was completed ahead of schedule, with excellent results.



UK Specifications

The Twizy is available in three trim levels in the UK – Expression, Dynamique and Cargo. Expression has all the essentials for safe and easy driving around town, while Dynamique adds features for extra style and street presence. Cargo is a pint-sized commercial vehicle.

Customers can buy their battery outright, or opt for Renault's cost-effective battery hire programme, which tailors charges to annual mileages across a range of contract periods. This programme gives customers the reassurance that that they will not face big bills should their battery fail to perform within its specified operating parameters.

The hire contract price covers:

- The supply of a battery that is always in good operating condition
- The guarantee that charging capacity will always be more than 75% of what it was when the battery was new
- Comprehensive breakdown cover, including roadside rescue for cases of a battery running flat

Notably, there is no involvement of any third party in the battery hire; the contract is with Renault through its subsidiary, RCI Financial Services. The contract guarantees the battery will work well and carry a good level of charge.

By hiring the battery, the customer also faces no financial risk should the unit malfunction. And when it comes to resale of the vehicle, there is no impact on the residual value.

All versions are protected against defects recognised by Renault with a three year / 60,000 mile warranty (first two years have no mileage limit). In the event of a breakdown, Renault provides emergency roadside repairs or towing to the nearest dealer within the UK and Northern Ireland 24/7 every day of the year. There is also a three-year paint warranty and 12 years' cover against corrosion.

In the lead-up to the launch of its Z.E. range, Renault UK appointed a network of 22 Z.E. Expert Dealerships, which have invested in specialist tooling and training for workshop staff as well as those in sales. This includes obtaining accreditation to a European standard for electrical safety from the IMI and Lloyds Register. A minimum of two technicians and the service manager have taken specialist training. In addition, there is a charging point in the workshop and in the customer car park. All Renault dealerships are now able to sell and service the Z.E. models.

The recommended service interval is at every 18,000 miles, or annually.



Standard features

EXPRESSION+





Grey Snowflake wheel trim

Colours



Lagoon Blue



Flame Orange



Diamond Black*



Snow White*



*Metallic paint optional.

SAFETY AND SECURITY
- Driver's airbag
- Disc brakes front and rear
- Daytime running lights
- Electronic engine immobiliser
- Lockable steering column and handbrake
- 4-point front seatbelt and 3-point rear seatbelt
- Anti-submarining front seat
- Integrated front and rear headrests
- Quick-demisting heated front screen

INTERIOR
- Adjustable front seat
- Drive and speed display

EXTERIOR
- Lateral front wind deflector
- Grey 'Snowflake' wheel trims

COMFORT AND CONVENIENCE
- 31-litre lockable storage behind rear seat (two-seater)
- Two gloveboxes (one lockable)
- Wind deflector, front lateral

TECHNOLOGY
- 3-metre charging cable
- Drive and speed display
- Battery econometer and gauge
- Range indicator and journey eco-score display
- Regenerative braking system
- Automatic transmission (reduction gear)

DYNAMIQUE (additional equipment to Expression+)





Gloss Black alloy wheels



Flame Orange alloy wheels



Urban Blue alloy wheels

Colours



Lagoon Blue



Flame Orange



Diamond Black*



Snow White*



*Metallic paint.

- 13in 'Diamond' alloy wheels in Gloss Black, Flame Orange or Urban Blue depending on colour collection
- A choice of 14 colour collections
- Floor mats – driver and passenger

CARGO (Expression+ standard features)











- Rear seats removed to create a 180-litre lockable boot capable of carrying 75 kg

OPTIONAL EQUIPMENT

- Scissor doors
- Windows
- Bluetooth kit
- Garmin sat-nav
- Child booster seat
- Grey alloy wheels with grey, orange or blue highlights
- Anti-lift alarm
- Front mudflaps
- Extra storage nets
- Black or white paint
- Rear parking sensors

Accessories

Twizy windows are fast and easy to fit at home making Twizy even more versatile. Parrot MK9100 Bluetooth® kit is a unique Bluetooth® hands-free kit, combining the latest in communication technology with a range of music functions. These include wireless remote control and colour display, voice synthesiser and voice recognition requiring no pre-programming, and MP3 iPod connectivity. The Twizy's 13-inch alloy wheels can be personalised with highlights in Flame Orange, Urban Blue or Gloss Black Diamond-finish.













INDIVIDUAL ACCESSORIES

Sport and Design
Alloy wheels (Flame Orange, Urban Blue, Gloss Black)
Protection and Comfort
Anti lift alarm
Child booster seat
Driver and passenger blanket
Front mudflaps
Leisure Bag
Protective vehicle cover
Rubber bumper strip front and rear
Rubber mats
Rear Body Coloured Parking Sensors
Steering wheel lock
Storage nets
Twizy windows
ZE Tax disc holder
Technology
Parrot Bluetooth kit with full audio and speakers
Sat Nav Garmin Pack NUVI 2240

Twizy pricing

VERSIONS	kW(HP)	CO_2 g / km	Range* (miles)	Benefit in kind	Insurance group	Basic price (£)	VAT 20% (£)	Total retail (£)	On the road price
Expression	13 (17)	0	56	0%	10	5,491.67	1,098.33	6,590.00	£6,895.00
Dynamique	13 (17)	0	56	0%	11	6,075.00	1,215.00	7,290.00	£7,595.00
Cargo	13 (17)	0	56	0%	11	£6,241.67	£1,248.33	7,490.00	£7,795.00

Combined Fuel Consumption (mpg): not applicable on electric vehicles. *Homologated range according to UTAC test cycle, for comparison purposes, 56, and may not reflect real life driving results.

BATTERY HIRE

Monthly battery rental pricing, including VAT and assistance for all breakdowns:

ANNUAL MILEAGE	4,500	6,000	7,500	9,000
36M + contract ^	£45	£49	£53	£57
24M contract ^	£50	£54	£58	£62
12M contract ^	£55	£59	£63	£67

^ The mileage bandings above represent the most commonly requested distances.

OPTIONS	Expression	Dynamique	Cargo	MRRP
INTERIOR				
Floor mats - Driver and passenger	○	●	○	£45.00
EXTERIOR				
Metallic paint	○	●*	○	£195.00
Clear sky roof (UV Filter)	○	○	-	£195.00
Alloy wheels (Gloss Black)	○	●*	○	£300.00
COMFORT AND DRIVING				
Doors - scissor doors with clear base and open and close assisted movement	○	○	○	£545.00
SAFETY AND SECURITY				
Anti lift alarm	○	○	○	£320.00
COMMUNICATION				
Parrot Bluetooth® handsfree system	○	○	○	£290.00
DESIGN YOUR OWN TWIZY: WRAPS IN A WIDE RANGE OF COLOURS AND PATTERNS				
Option 1: Doors only	○	○	○	£250.00
Option 2: Doors and body side frames	○	○	○	£395.00
Option 3: Entire vehicle	○	○	○	£795.00
Option 4: Do Your Own Thing	○	○	○	POA

● = Standard (therefore no cost); ○ = Optional; - = Not available; FOC = Free of charge option; * = Depending on colour collection;

ACCESSORIES (PRICES INCLUDE FITMENT)	MRRP
Alloy wheels (Flame Orange, Urban Blue, Gloss Black)	£375.00
Anti lift alarm	£320.00
Child booster seat	£55.00
Driver and passenger blanket	£100.00
Front mudflaps	£65.00
Leisure Bag	£85.00
Protective vehicle cover	£150.00
Rubber bumper strip front and rear	£100.00
Rubber mats	£45.00
Rear Body Coloured Parking Sensors	£150.00
Steering wheel lock	£70.00
Storage nets	£75.00
Twizy windows	£295.00
ZE Tax disc holder	£24.50
Parrot Bluetooth* kit with full audio and speakers	£290.00
Sat Nav Garmin Pack NUVI 2240	£120.00

*For compatible devices, please refer to https://www.renault.co.uk/services/multimedia/bluetooth-compatibility.html;

EASYLIFE PACK	MRRP
EasyLife Servicing Pack	£99.00



Dimension diagrams







BOOT VOLUME (litres)

Boot volume	31
Left storage	3.5
Right storage	5

DIMENSIONED DRAWING (mm)

A	Wheelbase	1,686
B	Overall length	2,338
C	Front overhang	313
D	Rear overhang	339
E	Front track	1,094
F	Rear track	1,080
G	Overall width including front mudflaps	1,237
	Overall width including rear mudflaps	1,232
	Overall width including exterior mirrors / including doors	1,381 / 1,396
H	Unladen height	1,454
H1	Unladen height with doors open min / max	1,818 / 1,980
K	Ground clearance (laden)	120
L	Front seat regulation	200
P	Distance between H-point and top of roof	908
Q	Distance between H-point and top of roof	843

Technical Specification

ENGINE	
Engine	MB L7e
Model version	M75
Engine number	3CG
Type approval	ACVYB0
DRIVETRAIN	
Motor and drivetrain features	3CG - electric asynchronous (induction)
Maximum power	13 kW - 17 hp
Maximum torque	57 Nm
Engine speed at max. torque	From 0 to 2100 rpm
Propulsion type	Electric
Drag co-efficient (SCx/Cd)	0.64
ACCELERATION PERFORMANCE	
Energy recovery device	Yes
AC maximum power	6KW
Remaining autonomy indicator	Yes
Description	Gauge on the dashboard
Alerts	Sound when 1/8 energy remains, Sound when 1/16 energy remains (+ when the battery energy reaches 5% the engine power limits to 15KW)
Economy mode assistance	Yes
Max speed (mph/kph)	50 / 80
50 m standing start (seconds)	6.6
0-45kph (seconds)	6.1
30-60kph (seconds)	8.1
RANGE	
Range ECE -15 UTAC* (miles)	56
Temperate (mild weather, miles)	43
Winter (cold weather, miles)	31
WEIGHT (kg)	
Kerb weight	474 (375)
Kerb weight on the front	206
Kerb weight on the rear	268
Gross Train Weight (G.T.W.)	690
Max payload	75
TOWING	
Towing	Cannot be towed
AXLES	
Front axle type	Pseudo MacPherson - combination coil springs, suspension, bump stop
Rear axle type	Pseudo MacPherson - combination coil springs, suspension, bump stop
Ø stabilising bars front / rear (mm)	Front and rear : 23 mm
GEARBOX	
Gearbox type	Automatic
Type	Gear reduction
Reduction ratio	1:9.23
Number of forward gears	1
MAINTENANCE	
Vehicle normal maintenance periodicity (control and maintenance) - specify the concerned parts	Yearly
STEERING	
Type	Direct rack
Turning circle between kerbs (m)	6.8
Number of turns of steering wheel	2.8
BRAKING	
ABS	No
Brake circuit	Simple circuit
Front: solid discs (DP), vented discs (DV) Ø (mm)	DP 214mm
Rear: solid discs (DP), vented discs (DV) Ø (mm)	DP 204mm
TYRES	
Wheel size	13'' wheel covers or alloy wheels
Front tyres	125 x 80 R13
Rear tyres	145 x 80 R13
BATTERY	
Battery type	Lithium ion
Battery weight	100kg
Capacity (kWh)	6.1 kWh
From 0 to 100%	3.5 hours
Slow charge (A)	10 amps
Standard charge plug type	3 pin plug

Manufacturing

The Twizy has been manufactured at the Renault factory in Valladolid, Spain, since 2012. The plant was chosen for its experience in compact car production and well-deserved reputation for high manufacturing quality as well as its easy access to important Western European markets. The Valladolid bodywork-assembly site has been ISO 14001 certified since 1999.

Since its founding in 1953, the site has built 17 models including the Renault 5, Renault 12, Super 5, Clio and Modus. It also produces parts for other Renault group plants. Today, the plant is the production centre for the Captur, and its 2,693 employees assemble around 1,350 vehicles daily. A special building is dedicated to production of the Twizy.



History

At the Frankfurt Motor Show in September 2009 Renault announced a radical programme for delivering a new range of zero-emissions (in use) electric vehicles, working with its Alliance partner Nissan.

Carlos Ghosn, Chairman and Chief Executive Officer of Groupe Renault, said: "The automobile industry contributes to the problem of climate change. It generates 12 per cent of the CO_2 emissions that result from human activity and accounts for 25 per cent of the world's oil consumption. At Renault, therefore, we have decided to be part of the solution."

Renault's intentions were made clear at Frankfurt, where it showed four Z.E. concepts: Twizy, ZOE, Fluence and Kangoo. All of these models have since been brought to market. Kangoo Van Z.E. led the way in November 2011, followed by the Fluence Z.E. saloon and Twizy in 2012. The flagship, ZOE, was shown in production form in 2012 before going on sale in the UK the following summer. The versatility of the Twizy concept was demonstrated with the launch of the Twizy Cargo in summer 2014.

Twizy history

September 2009 Renault reveals the Twizy Z.E. concept at the Frankfurt Motor Show.

November 2009 The Twizy is confirmed for production at Renault's factory in Valladolid, Spain.

2011 Twizy production begins.

April 2012 The Twizy goes on sale in the UK.

October 2012 Accessory-fit windows launch.

February 2013 Launch of Design Your Own Twizy programme.

June 2014 Innovative, single-seat Twizy Cargo with 180-litre boot, 75kg-compatible boot for business use goes on sale in UK.

July 2015 Putting Twizy in line with the rest of the Renault range, Expression+ replaces Urban trim and Dynamique takes the place of Technic.

September 2016 The success of the Z.E. project is demonstrated as Renault hands over the keys to its 100,000th electric car (a ZOE).

March 2017 Renault signs its 100,000th electric vehicle battery leasing contract.

April 2017 Renault delivers 10 Twizys to America's Cup challenger Groupama Team France.



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