



E-VIA

BRIGHTER EV CHARGING

**Innovative dual
EV charging pillar
with built-in
professional, high
performance
lighting.**



E-VIA CHARGING

The E-Via has been specifically designed to enable EV charging in a multitude of environments.

Configurable to suit the user's power availability and charging needs, internet connectivity, lighting requirements and budget.



FEATURES

- **Extruded aluminium body** for long life and high durability
- **Designed for speed of installation** and maintenance
- **Maximised power capacity** - intelligent software ensures the optimum amount of charge to each vehicle
- **Flexible payment/usage methods** including plug & charge, mobile app or RFID controller charging
- **OZEV** (Office for Zero Emission Vehicles) grant approved
- **OCPP 1.6 compliant** can integrate with any back office
- **Over-the-air** firmware/software updates
- **Accessibility** approved PAS 1899 compliant
- **Designed and manufactured in the UK**
- **BSi Kitemark accredited**



E-VIA LIGHTING

The E-Via has a high performance built-in illuminated head for general area lighting.

The sophisticated LED optic provides excellent ground illumination and high light uniformity ensuring users are able to correctly and safely connect to the charger. The high performance nature of the illuminated head means that it can be incorporated into the overall exterior lighting solution of the site.

EMERGENCY LIGHTING

The E-Via is available with integral emergency lighting allowing for illumination of walkways in the event of an emergency. Where E-Vias are placed along emergency routes, the emergency lighting facility will illuminate the way to fire assembly points highlighting any cables (trip hazards) on the way.

WIRELESS CONTROLS

The E-Via has been designed to work seamlessly with the TRT Lighting Lumi-LinQ platform

The E-Via will offer superior lighting controls, emergency status reporting and energy management on the same platform as the exterior luminaire installation.

ILLUMINATE THE CAR

The additional lighting aids location of the charging sockets, and provides illumination in the bonnet storage or boot area when finding the charging cable.

COMPLETE WITH PHOTOCELL CONTROL

The E-Via comes with a photocell as standard to switch lighting on and off when required.

DIE-CAST ALUMINIUM HEAD UNIT

Excellent thermal management of LEDs for long 100,000 hour life.

HIDDEN OPTICAL COMPARTMENT

Low glare and less than 2% upward light, a requirement for preventing light pollution in many inner city and rural applications.

DESIGNED FOR TOUGH ENVIRONMENTS

The lighting unit is sealed to IP66.

HIGH PERFORMANCE OPTICS

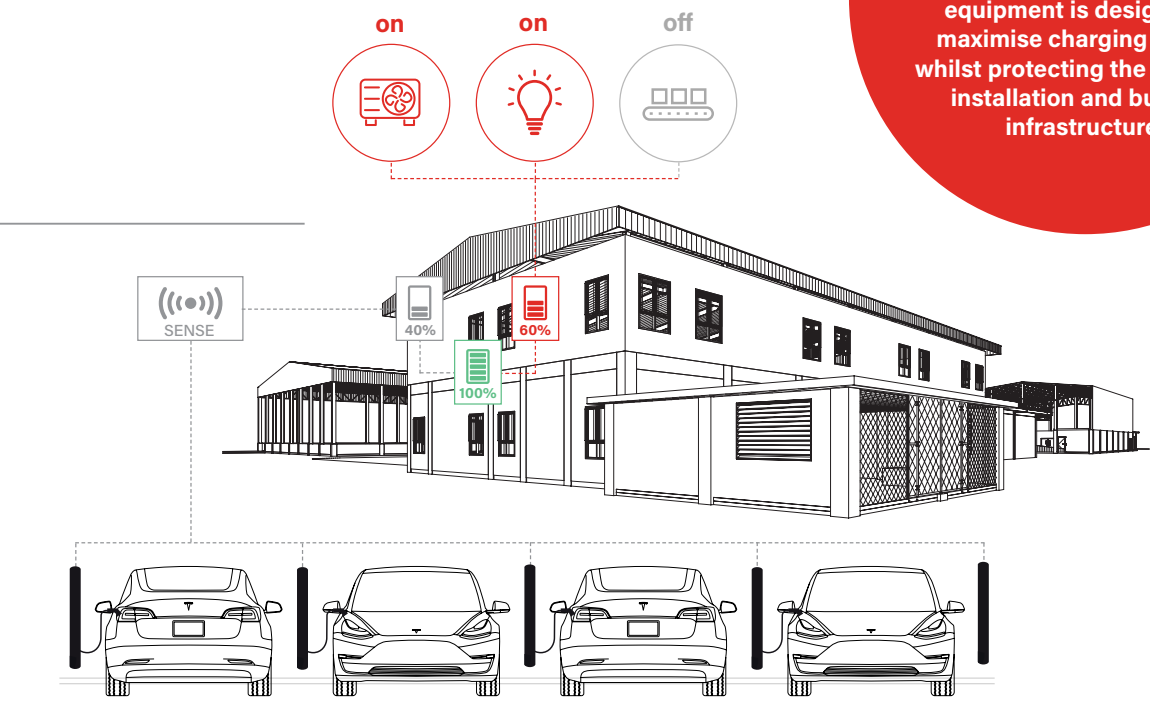
Superior luminaire spacing with high uniformity.

EXTRUDED ALUMINIUM BODY

Long life and high durability.

LOAD MANAGEMENT AND CONNECTION

The E-Via is available with both static and dynamic load management systems. Load management of EV charging equipment is designed to maximise charging speeds whilst protecting the electrical installation and building infrastructure.



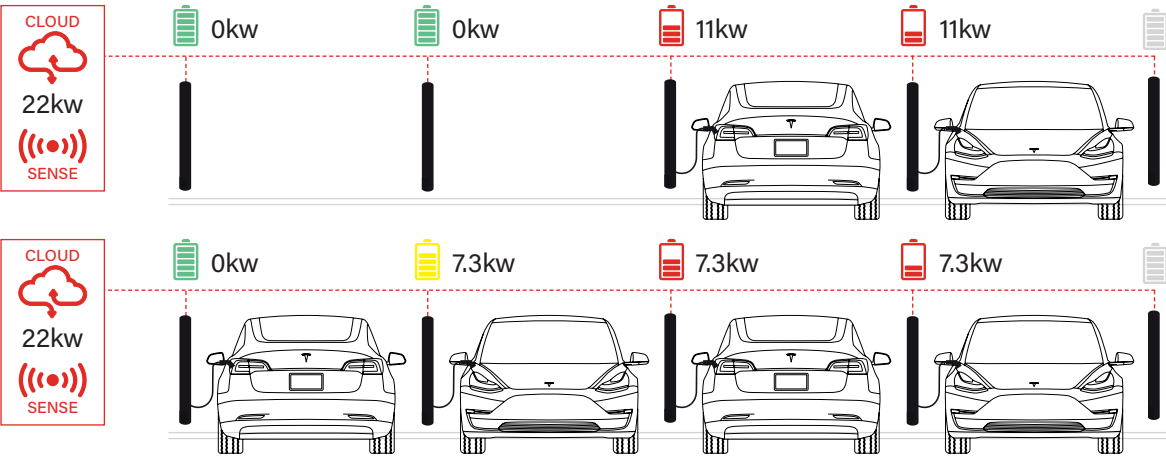
DYNAMIC LOAD MANAGEMENT

Monitors the building's energy supply and usage, calculating the power available and distributing it equally to the EV charger installation.

As the building power consumption increases e.g. heavy machinery being switched on or off, the E-Via Sense will increase or decrease the power available to the EV charger installation.

STATIC LOAD MANAGEMENT

Involves the installation of EV charging equipment on a dedicated power supply that has a known fixed power capacity. The EV chargers are designed to effectively manage this power supply by evenly distributing the load between them as more sockets are utilised. This can be done at Cloud level (using back-office software) or locally to the chargers using the E-Via Sense.



E-Via Lite



E-Via Pro



E-VIA SENSE

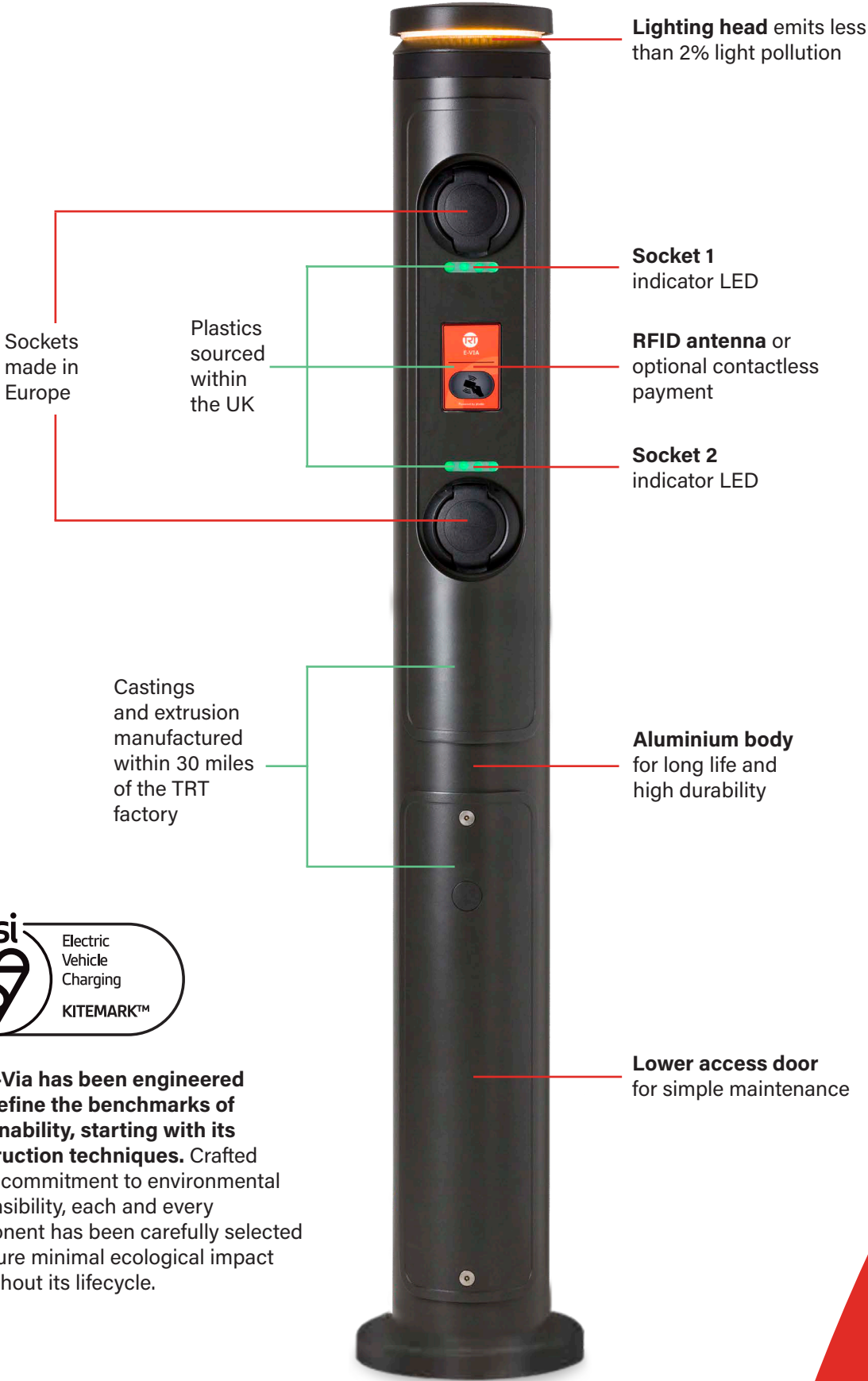
The E-Via is available with both static and dynamic load management systems.

| | | E-Via Sense | |
|-------------------------|---------------------------------------|-------------|-----------|
| | Load Management available as standard | E-Via Lite | E-Via Pro |
| Static Load Management | | | |
| >5 or less pillars | ✓ | | |
| >6-16 pillars | | | ✓ |
| Dynamic Load Management | | | |
| >5 or less pillars | | ✓ | |
| >6-16 pillars | | | ✓ |

✓ - Recommended Option



TRT E-VIA FOR QUALITY



The E-Via has been engineered to redefine the benchmarks of sustainability, starting with its construction techniques. Crafted with a commitment to environmental responsibility, each and every component has been carefully selected to ensure minimal ecological impact throughout its lifecycle.



RENEWABLE ELECTRICITY GENERATION

In line with the FW Thorpe carbon reduction initiatives, TRT has installed solar photovoltaic (PV) units on the roof of its manufacturing site to harness and utilise as much natural energy as possible. The power generated by the PV arrays is distributed across the business, providing power to the plant and machinery whilst also charging the TRT fleet of hybrid and electric vehicles.

In addition to the power generated by the PV arrays, all purchased electricity now comes from renewable sources thus deeming 100% of TRT's electricity consumption to be from renewable energy.



CIRCULARITY

The principles of circularity aim to eliminate waste by keeping as much of the original product material in use for as long as possible. All TRT products are designed with circularity in mind using recycled materials, the minimum number of components, longevity and reparability.

The body of the E-Via is primarily constructed from 70% post consumer and processed scrap aluminium.

The E-Via has been designed to achieve a long and reliable lifetime which is extended further by its simple serviceability. However once end of life is reached, the E-Via can easily be disassembled and recycled, minimising the impact on the environment.



FOR BUSINESS

Management software provides the complete EV charging solution, ensuring data and payments can be easily customised and managed via a single software platform.

TRT E-VIA FOR BUSINESS

TAKE CHARGE WITH ACCESS CONTROLS

- ✓ Restrict access – allow charging to only the drivers you want
- ✓ Set opening times – set different availability times to different user groups

MAXIMISE REVENUE POTENTIAL

- ✓ Allow public charging – set opening hours and manage multi-tariffs*
- ✓ Charger visibility – attract drivers to your location via Zap-Map*, Google Maps and Apple Maps

REMOTE MAINTENANCE

- ✓ Click to fix – perform soft and hard resets, and unlock connectors remotely with a click of a button

FULL VISIBILITY

- ✓ Generate reports on a wide range of activities

PAYMENT MADE SIMPLE

- ✓ Full tariff control – set up different tariffs to different users with the ability to make use of flexi-tariffs
- ✓ Payment options – Google Pay, Apple Pay, credit and debit card
- ✓ QR stickers – allow users to connect for payment via QR code



*Additional charges may apply

| DIMENSIONS & SPECIFICATIONS | |
|-----------------------------|---|
| Charging System | IEC 61851 Mode 3 |
| Supply Voltage | Single phase / three phase, 230 / 400V, 16A / 32A |
| Charging Power | 7.4kW & 22kW |
| Protections | AC 30mA, DC 6mA |
| Housing | Polyester powder coated aluminium |
| Dimensions | Dia. 165mm x 1500mm |
| Weight | 17Kg |
| Ingress Protection | IP54 (lighting head IP66) |
| Impact Resistance Rating | IK10 |
| Operating Temperature | -25c to +40c |
| Marking | UKCA, BSI Kitemark |
| PEN Fault Detection | PME fault detection on single and three phase versions |
| Metering | CT clamp or MID meter versions |
| Standards | LVD 2014/35/EU, EMCD 2014/30/EU, BS EN61851-2019, EN61000-2, EN61000-3, CE certified, BS7671-2018 |
| EV Connections | OCPP1.6J |
| Internet Connections | Internet, Ethernet, Wi-Fi and 4G - Sim card and data supplied as standard |

Charging Accessories

To complement its charging solutions TRT offer a range of charging cables and mobile chargers to connect to a wide range of electrical connections.



E-Line T2-T2 straight charging cable



Premium T2-T2 straight charging cable



Premium T2-T2 coiled charging cable



Mobibox portable charger T2 to CEE plug 16A



Mobibox portable charger T2 to 3pin plug 10A



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