

**NEW!**

**TUF-R** <sup>A+C</sup>  
**25W**

Advanced USB Charging Technology



USB TYPE A

USB TYPE C

# Future Proofing

The USB Type C connector is now being adopted by all the major manufacturers of mobile devices (phones, tablets, etc) and has already been incorporated into some laptops. This is not only because of its small form factor and the fact that it is reversible, making it simpler and easier to use, but also because it enables significantly faster charging than was possible with the USB Type A connector, whilst at the same time (for relevant devices) replacing all former AV/data connections, such as VGA, HDMI, USB-A, RJ45.

TUF-RA<sup>+</sup>C from OE Electric provides both the new USB-C port, for enhanced fast charging of compatible devices, plus a USB-A for charging legacy devices - suiting users with any USB powered device old or new.



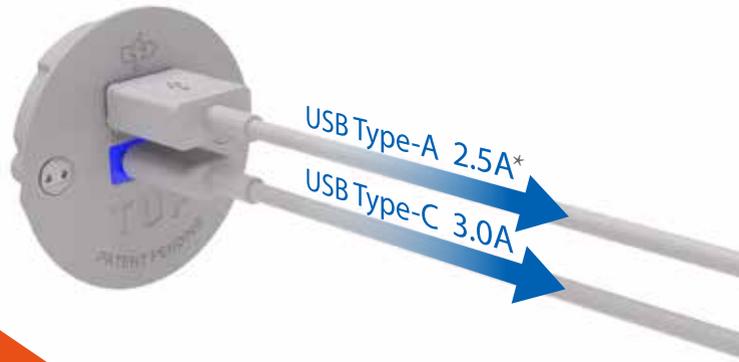
OE Electric's TUF<sup>RA+C</sup>  
USB charging module

TUF-RA<sup>+</sup>C also has the unique benefit of being replaceable through patented TUF-R technology; perfect for areas of high traffic such as airports, schools and hospitality, where, if damaged through misuse or worn out through high usage, TUF-RA<sup>+</sup>C can quickly be replaced, in-situ, without the need for an electrician or even turning off the power; or, to keep pace with technology, it can be exchanged for an upgraded TUF solution.

When used in combination with country-specific mains sockets, users can configure the complete power solution to meet all their power/charging needs, present and future

TUF-RA<sup>+</sup>C has been independently certified to international safety and EMC standards and every unit is extensively tested during the manufacturing process to ensure long-term reliability.





Try and think of a scenario where TUF wouldn't be useful.



\*Total output of TUF<sup>A+C</sup>25W



From airports to offices to libraries to laboratories, TUF-R<sup>A+C</sup> provides the best of both worlds; USB-A charging for legacy devices and the more advanced USB-C charging for new devices.

We are all slaves to our devices; we rely on them, not only socially, but even more so for business. They have become a necessity. This all means if you manage a place of work, a school, an airport, library or train - people will be relying on you to provide safe, easy to access, fast charging.

TUF-R<sup>A+C</sup> provides all of that and more.

TUF-R<sup>A+C</sup> can be fitted into any OE Electrics power module making it incredibly simple for you to provide the best solution for you, your clients, and their clients. And where OE Electrics doesn't have a product that fits your space - we'll help you design one to suit.

**Get in touch now to see how we can help you provide the best solution.**

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## Specifications

USB Charging Outlets	1 x Type A Female 1 x Type C Female
Charging Current	Type C 5V up to 3.0A Type A 5V up to 2.5A Maximum combined output 5A
Rated Total Output Power	25W
AC Voltage Range	200-240VAC at 50/60Hz
AC Input Current (Full Load)	Maximum 0.6A
Efficiency	Up to 90%
Environment	0 - 30C / 85% Relative Humidity
Standby Power	0.05W

## Features

Protection from External Surges	Yes (3.5kA for 8/20us Pulse)
Internal Over Temp Protection	Self Resetting
Internal Over Voltage Protection	Self Resetting
Output Over Current Protection	Self Limiting
Short Circuit Protection	Self Resetting
USB Sockets	Intelligent Device Recognition (IDR) Gold Plated for Improved Contact Type-A specifically manufactured for minimum 5000 insertions. Type-C for minimum 10,000 insertions.
Power indicator	Blue LED
Cable Compensation	Voltage Adjustable to compensate for cable loss
Standards	Certified to IEC 60950-1, UL 6050-1 and EN61204-3/CISPR22

Also available with stainless steel fascia

## Compatibility (examples only, not exhaustive)

Apple iPhone/iPad	Yes - Type A Apple 2.4A Type C 5V 3A
Apple MacBook Laptop	Yes - Type C - 3A
Google Pixel Phone + Laptop	Yes - Type C - 3A
Android (USB BC1.2)	Yes - Type A
Samsung Tablet Charging Specification	Yes - Type A
Blackberry	Yes - Type A

## Device Charge Times

### 10 to 90% Charge Time [Min]

iPhone 8+	71 (Type C) 75 (Type A)
Samsung Galaxy Note 8	69 (Type C) 87 (Type A)
iPad Pro 9.7	125 (Type C) 235 (Type A)

Intelligent Device Recognition ensures compatibility with all USB Type A and Type C (5V) devices



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