

The NEW OE Electrics TUF-R^{5A} has been developed for the future. TUF^{5A} was perfect for your fast paced life, but TUF-R^{5A} offers the same powerful, compact and efficient power delivery with one fantastic advantage: it's upgradeable!

Without the need for an electrician, or even a handyman, when TUF-R type A+C arrives, you can simply upgrade the module yourself, saving time, energy and money.

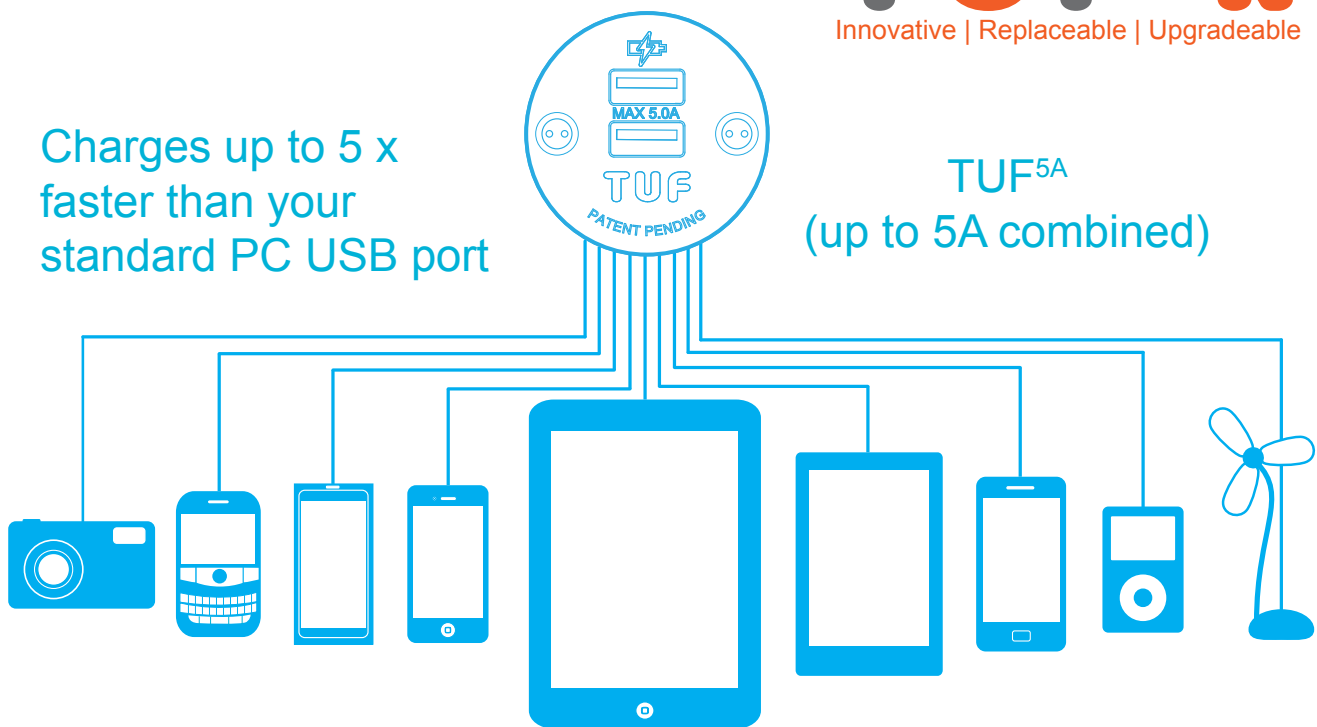


NEW TUF-R^{5A}

Innovative | Replaceable | Upgradeable

Charges up to 5 x
faster than your
standard PC USB port

TUF^{5A}
(up to 5A combined)



The OE Electrics TUF^{5A} (Twin USB Fast) charger with its 5A max output and unmatched 90% efficiency is now available in a unique on site upgradeable/replaceable format. Developed for high use areas such as hotels, airport lounges, trains and schools/colleges, TUF-R^{5A} charging sockets can be replaced on site without even the need to disconnect the AC supply.

Although our standard TUF^{5A} features enhanced durability 5,000+ insertion USB connectors, inadvertent damage or vandalism of a USB connector is a risk that cannot be ignored by facility managers. TUF-R^{5A} offers a cost effective solution for the management of this risk by enabling quick on site replacement of a damaged TUF socket rather than the removal of the complete power module to return for repair.

Another invaluable feature of the TUF-R^{5A} is that being replaceable, it will allow future upgradeability of your USB charging provision to the next generation type C USB PD charging solutions as these are developed by OE Electrics. Specifying TUF-R^{5A} will help ensure end user satisfaction and protect your investment in device charging provision.

The procedure for replacing a TUF-R^{5A} charging socket in situ, has been designed to be quick and simple with no need for a qualified electrician. Simply remove the TUF-R^{5A} fascia and extract the TUF module with the supplied tool, insert a new module until the integral clips engage and finally refit the fascia. The process taking no more a few minutes and without the need to disconnect the AC supply.



TUF-R^{5A} has achieved its class leading 5A output by boosting internal efficiency up to an exceptional 90% via innovative low loss circuitry. As a result TUF-R^{5A} is able to charge faster with less power wastage due to heat generation than competitor products and comply with the latest level VI international standards on the efficiency of mobile device power supplies.

TUF-R^{5A} utilises advanced device recognition circuitry to automatically communicate with the portable devices connected so that they can then draw the optimum charging power. Safety has been a design priority and TUF-R^{5A} circuitry includes protection against both input and output current overload and short circuits and, has been independently tested to the latest international Safety and EMC standards.

Technical data

TUF-R^{5A} is for charging only; no data transfer is available as no connection to a computer is provided.

Our 5A TUF charger provides enough power to charge two devices (even iPads) simultaneously at their maximum current.

USB charging outlets	2 x type A female
Charging Current:	Max 5A in total
AC voltage range	110-240V AC 50/60Hz
AC input current	Max 0.6amp at full load Less than 0.5mA at no load
Rated total Output	25W max
Output voltage	5V DC +/- 5%
Standby Power use	Less than 0.05W
Life expectancy	Min 5 years in normal use
USB connector	Gold Plated - min 5000 insertions
Over current protection	Yes - self regulating
Short Circuit protection	Yes - Auto reset
Apple ipad/iphone compatible	Yes (including new Apple 2.4A)
Blackberry compatible	Yes
Operating Temperature range	0° to 35°C
Max relative humidity	85% RH

*Insertion lifetime refers to USB contacts only

Indicative Charging times from 10% to 90%

Device	Time Hrs:Mins
iphone 6S	1:29
iphone 5	1:26
ipad 3 & 4	3:45
ipad Air	3:05
Sony Xperia Z1	2:23
Samsung Galaxy Note 10.1"	3:36

Certifications

Certified to:	UL/IEC 60950-1 EN61204-3/CISPR22
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Additional features

- Dynamic Voltage Adjustment to compensate for Cable Voltage Loss
- Protection from external surges (3.5kA for 8/20us Pulse)
- Blue LED backlight which is visible through the USB apertures

Replacing TUF using the TUF replacing tool



TUF replacing tool.



Insert the 'snake eye' bit into the tool as shown.



Use the tool to unscrew the 'snake eye' screws.



Lift off the TUF fascia



Insert the second part of the TUF replacing tool into the TUF as shown, until a click is heard.



Pull the TUF cartridge out from the unit.



Unwrap and insert the new TUF cartridge, paying close attention to the orientation of the cartridge to the blue housing.



Push the cartridge into the blue housing until a click is heard.



Place the TUF fascia back into position.



Using the TUF replacing tool and 'snake eye' bit, screw the snake eye screws back into place