

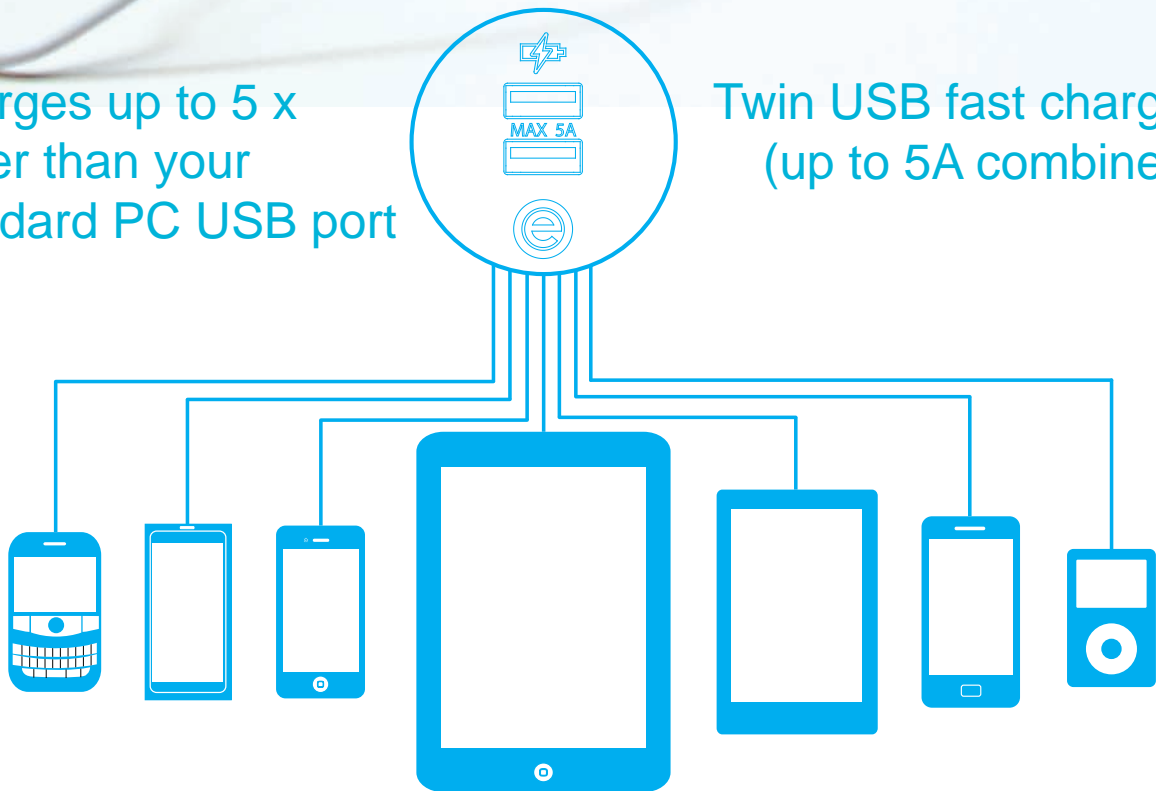
# TUF<sup>5A</sup>

The New Elsafe TUF<sup>5A</sup> is the perfect addition to your fast paced and demanding life. Developed to provide a powerful, compact and efficient power source for your mobile device. TUF<sup>5A</sup> removes the need for plugtop chargers. Simply plug your device's USB charging lead into one of TUF<sup>5A</sup> USB ports, sit back and watch as class leading charging technology quickly charges your device.



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

Twin USB fast charger (up to 5A combined)



This second generation TUF represents a giant leap forward in USB charging technology. With 5A output across two USB ports. TUF<sup>5A</sup> can simultaneously charge two of your devices at speeds comparable to or faster than your devices' own chargers. TUF<sup>5A</sup> utilises IDR (Intelligent Device Recognition) enabling it to 'talk' to your devices ensuring an optimum charging rate.

Not only TUF by name, but tough by nature; TUF<sup>5A</sup> is designed to withstand the elements of a commercial environment with 'ruggedized' connectors withstanding 5000 plus insertions. This makes TUF<sup>5A</sup> ideally suited to the

high usage environments such as hotels and offices. TUF<sup>5A</sup> circuitry includes protection against both input and output current overload, and has been independently tested to the latest International Safety and EMC standards.

Through innovative engineering TUF<sup>5A</sup> boasts an exceptional efficiency of 91% ensuring you a full 5A of power for charging. This allows you to charge your devices faster, with far less power wastage through heat generation, and comply with the latest international standards on the efficiency of power supplies.



Within the many different sectors that Elsafe supply, they all require, to some degree, a freedom to charge mobile devices in easily accessible places. TUF<sup>5A</sup> provides the perfect solution, not only does it allow fast intelligent charging to any mobile device, but can be built into the majority of our power modules. TUF<sup>5A</sup> can be fitted into desks, meeting tables, lockers, cafe tables, common rooms, bedrooms, hotel receptions, hospital rooms, trains, planes, lecture theatres, even into the sides of an armchair.

And if you have ever considered designing your own power

## Technical Data

TUF<sup>5A</sup> is for Charging only; no data transfer is available as no connection to a computer is provided.

USB Charging Outlets	2 x Type A Females
Charging Current	Maximum 5A in total
AC Voltage Range	200-240VAC at 50/60Hz
AC Input Current	Maximum 0.6A 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 Plates - 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

module, where ours may not suit, there is no better time - because we can help you integrate TUF<sup>5A</sup> into your own OEM solution.

This versatility allows TUF<sup>5A</sup> to be available to anyone who needs it. TUF<sup>5A</sup> improves Health & Safety standards through controlled procurement, rather than allowing the use of untested plugtop chargers.

TUF<sup>5A</sup> gives users the flexibility to charge anywhere anytime SAFELY!

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

### Indicative Charging Times from 10% to 90%

Device	Time Hrs:mins
iPhone 6S	1:29hrs
iPhone 5	1:26hrs
iPad 3 & 4	3:45hrs
iPad Air	3:05hrs
Sony Xperia Z1	2:23hrs
Samsung Galaxy Note 10.1"	3:36hrs

### Certifications

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