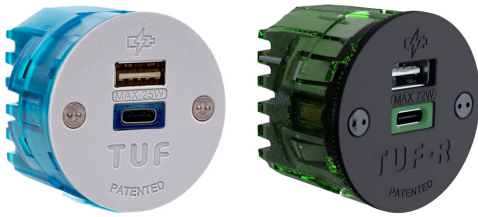


TUF-R has been developed for the future, offering compact yet powerful laptop and mobile charging with the added advantage of being replaceable. TUF-R fits most OE Elsafe products to provide advanced USB charging technology.



TUF-R is quick and simple to replace without the need for an electrician or turning off the power. The unique and patented benefit of being replaceable makes TUF-R perfect for areas of high traffic, such as airports, schools, and hospitality, where if damaged through misuse, TUF-R can simply be quickly replaced. [CLICK](#) to see how easy TUF-R is to replace.

Upgrading or replacing the TUF-R module and not the whole product saves time, money, and significantly reduces waste.

Being replaceable also allows TUF-R to be upgraded in the future to incorporate the latest technologies.

Upgrading / Replacing a TUF-R module



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



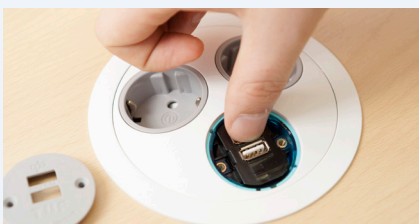
Insert the second part of the TUF replacing tool into the TUF as shown, until a click is heard.



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.



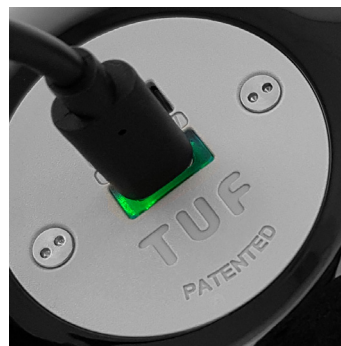
Using the TUF replacing tool and 'snake eye' bit, screw the snake eye screws back into place



Specifications	
USB charging outlets	1 x type A female (reversible) 1 x type C female (reversible)
Charging current	Type C 5V/3A, 9V/2.22A, 15V/1.7A, 20V/1.2A (PD3.0) Type A: 5V/3A, 9V/2A, 12V/1.5A (QC3.0/QC2.0) Combined (A+C) : 5V/4.0A (MAX)
Rated total output power	TUF PD 25W / TUF HP 72W
AC voltage range	100-240VAC at 50/60Hz
Ac input current (full load)	Maximum 0.6A
Efficiency	Up to 90%
Environment	0-25°C
Standby power	0.05W



Unique to OE Elsafe is the reversible Type A port, which will ensure a first-time connection - every time. USB charging cord connectors can now be inserted both ways, cutting down on wear or damage from incorrect attempts and maximising the working life of the power module.

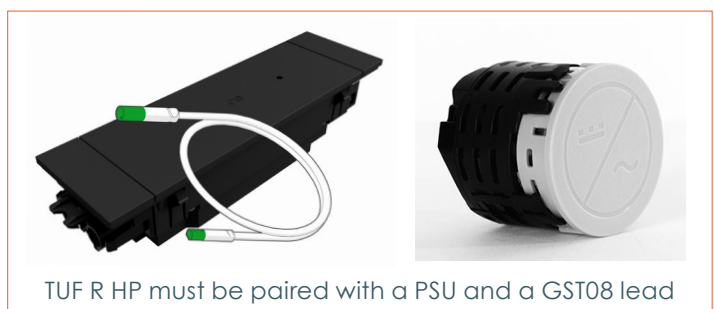


GREEN LED = Boost, Super Fast PD Charging

BLUE LED = Fast Charging

TUF R is designed and intended for commercial use.

Features	
Internal over temp protection	Yes, self resetting Blue and Green LED Flash
Internal over voltage protection	Yes, self resetting
Output over current protection	Yes, self limiting Type C - Flash Green Type A - Flash Blue
Short circuit protection	Yes, self resetting
Power indicator	Blue LED Standard Voltage Green LED Higher Voltage (PD/QC)
USB Sockets	Gold plated for improved contact. Type A and Type C manufactured for minimum 10,000 insertions. .
Charge Standards	(IDR) - Intelligent Device Recognition, PD3.0; QC2/QC3
Standards	Certified to IEC 62368-1 : 2014 (safety) and EN61204 : 2000 (EMC)



TUF R HP must be paired with a PSU and a GST08 lead