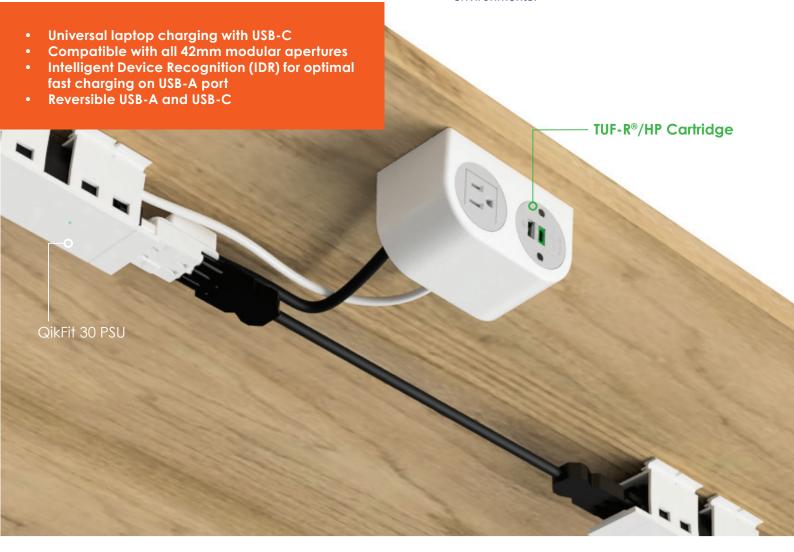
TUF-R®/HPCartridge



TUF-R®/HP is OE's latest evolution in high power USB charging. With up to 60W available through the USB-C port it provides power delivery (PD) laptop charging capability, while still providing up to 12W fast charging over the USB-A for tablets and phones.

This next generation USB charging solution when combined with our QikFit 30 PSU, separates the USB outlets from AC/DC supply allowing flexibility for location of the power supply unit.

TUF-R®/HP replaceable high power USB cartridge goes wherever power is needed. With multiple enclosure options enabling on-surface, in-surface, under-surface, and in-panel options, TUF-R®/HP is the smart choice for USB DC power. By locating the AC to DC QF30 PSU remotely from the TUF-R®/HP cartridge, you gain added safety by only providing DC at the user interface. Remotely positioning the PSU allows safe USB installation in locations where previously electrical safety issues may have precluded it, such as cafes, public spaces, and educational environments.





OE Electrics Inc. USA sales@oeelectrics.com; www.oeelectrics.com
Tel: 1-(844) 927-0600 toll free

TUF-R®/HP Cartridge

Technical

USB Charging Outlets	1 x Type C (Reversible) 1 x Type A (Reversible)
Power In connector	Male GST08 DC connector
Rated Total Output Power	72W MAX
Output Voltages & Currents	TYPE C: MAX 60W 20V/3A, 15V/3A, 9V/3A, 5V/3A (PD3.0) 3.3 - 11.0V / 3.2A (PD PPS Mode) QC 2/3.0 5V/3A, 9V/2A, 12V/1.5A TYPE A: MAX 12W 5V / 2.4A IDR BC1.2, Apple 12W Mode Samsung Fast Charge
Input Voltage	24 - 30V DC
USB Connector Min. Insertions	Type A, 10,000 Type C 10,000
Over Current Protection	Yes. Digital control at 3.3A. Auto reset with LED flash.
Short Circuit Protection	Yes. Digital control at 3.3A. Auto reset.
Over Temperature Protection	Auto Power Reduction to PD 45W Mode. 20V/2.25A, 15V/3A, 9V/3A, 5V/3A
Rated Operating Temperature	32°F TO 77°F (0°C TO 25°C)
Certifications – Safety	IEC 62368-1 : 2014
Certifications –EMC	EN61204 : 2018 EN 50121-3-2 (railway) FCC part 15 (B)
Certifications ROHS	EU 2015/863
User Replaceable USB module	Yes

Construction

High strength fire retardant polycarbonate mouldings

Colors

Cartridge – Gray Housing - Green Fascia - Black or Gray

Power cord options:

TUF-R®/HP - GST08 cable or internally wired within the unit

QikFit 30 PSU - NEMA plug to GST Starter cord

Installation:

Removable fascia with snake eye screws

Quality & Testing

All **TUF-R®/HP** canisters are manufactured using ISO9001 quality controlled components and practices and are 100% tested before dispatch:

- · Visual: Configuration and appearance
- Power sockets: Continuity, polarity, insulation & earth
- USB charger: Output voltage and resistance
- Wireless charger: Charging current in test receiver

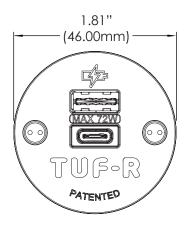
"We test every pin on every connection in every socket"

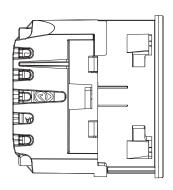
Certifications

- cTUVus Listed UL962A/CSA22.2
- FCC Part 15 (B)

International certifications available upon request

Dimensions (only for installation in OE Power module - not for individual sale)







OE Electrics Inc. USA sales@oeelectrics.com; www.oeelectrics.com
Tel: 1-(844) 927-0600 toll free