

qf05 tuf hp

DATASHEET

- Super compact panel mounted unit
- Smart Power Delivery functionality
- Industry first reversible type A port
- Replaceable unit

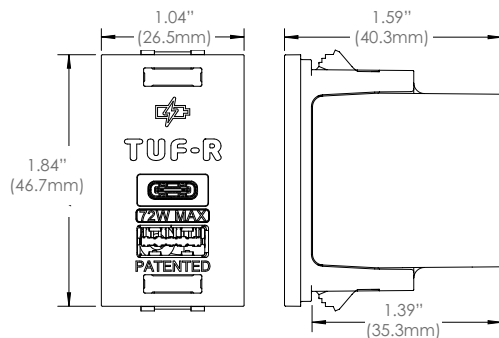


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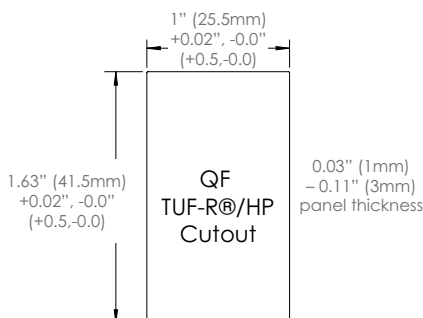
Wiring (power): All OE Railways Approved products are supplied with Harting Han 1A connectors or to open ended cables and compliant to EN45545.

Certifications: QF05 TUF HP is certified railways approved to the relevant standards: GM/RT 2130 Issue 5.1, EN 50153: 2014+A2-2020, EN 45545-2:2020, EN 50121-3-2:2016+A1, EN 50343:2014+A1:2017, EN 50155:2021(Annex G), EN 61373:2010.

Product Dimensions:



Cutout Dimensions:



USB Charging Outlets	1 x Type C (Reversible) 1 x Type A (Reversible)
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° TO 25°C)
User Replaceable USB module	Yes
Certifications – Safety	IEC 62368-1 : 2014
Certifications –EMC	EN61204 : 2018 EN 50121-3-2 (railway) FCC part 15 (B)
Certifications ROHS	EU 2015/863