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POWERVERTER RAIL FOR ALL YOUR ONBOARD POWER

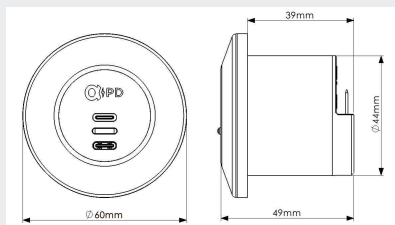


NO COMPROMISE.

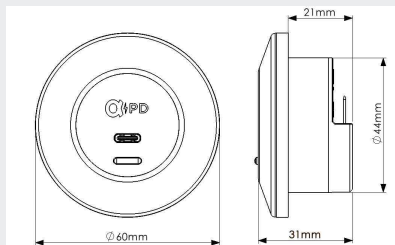
PDR USB Power Delivery



Available as front fit unit, secured by four screws, and covered with a discreet cover ring / square bezel in a choice of colour (light grey, dark grey and black) with ingress protection to IP65 (not connectors).



AC and CC Units



C Only Units

The PowerVerter Power Delivery (PVPD) USB charging range is specifically designed to offer higher powered USB charging for laptops and tablets for all onboard rolling stock applications. The products operate from a 17-32Vdc input voltage range from the appliance's operating system negating the need for AC mains, to provide high power onboard passenger charge for more demanding applications. Available in single C, dual C and A & C connector options with a variety of different coloured bezels and configurations to suit all rail interiors.

It's versatile and rugged design permits installation directly into passenger seating (space permitting), between or under seats using the suitable mounting pod available or directly into the carriage wall for OEM fit or part of a refurb service programme.

Due to its operating DC voltage, installation and maintenance costs are much reduced, efficiency is improved due to the reduced power consumption, and each passenger can have at seat charging points.

These units have been tested to Rail EMC EN50121-3-2, Rail Fire EN45545-2 and Rail Shock and Vibration EN61373.

Please see the PRi range of DC-DC voltage converters, if voltage conversion is required to step down from 110Vdc – 24Vdc.

PD-POD for Sidewall and Under Seat Installations

The PD-POD is a rugged mounting POD for Power Delivery chargers to permit installation under seating systems or in carriage sidewalls. It's versatile and durable UL94 V-0 rated plastic ensures it can be installed for a variety of applications.



PD-WPOD-3 with PDR060C-D1BGR installed, to be used for wall mounting. (PDR060C-D1BG3)



PD-POD-1 with PDR090CC-D1BGR installed, to be used for underseat mounting. (PDR090CC-D1BG1)

PR65R USB Charger IP65

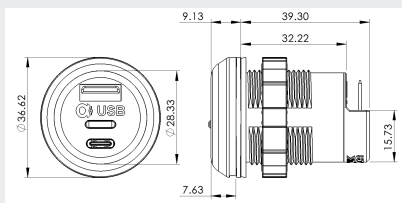


Available as standard (secured from the rear with a nut) or front fitting, secured by three screws, covered with a discreet cover ring. Light grey, dark grey and black rings available on both versions.

Installations can be carried out two ways:

For systems already galvanically isolated, the PR65R can be connected directly to the electrical system (either 12V or 24V). These units have been approved to EN 50155.

If the system specification requires galvanic isolation, then the PR65R range units can be used in conjunction with the Alfatronix DC-DC Railway isolated converters such as PRI24-12 072 or PRI110-24 108. These units have also been tested as a system to EN 50121-3-2. We recommend this option.



PR65R Dimensions (mm)

A complete range of USB A & C and C chargers with a wide input of 9-32Vdc, designed to operate reliably in harsh environments with the internal electronics protected to IP65 (excludes the USB connector). They are particularly suitable for challenging installations where moisture and dirt are prevalent and are designed to EN 50155 (Annex G), with testing to EN 50121-3-2, EN 45545-2 and EN 61373.

Customisable

Enhance your corporate image with our branded versions.



PR65R-ACFf
(Customised)



PR65R-CCFf
(Customised)

USB-POD for Under-seat Installations

The USB-POD is a rugged mounting pod for USB charger installation under seats, accessible from the front or rear. It can house one USB charger and is also available as a complete assembly together with appropriate fused wiring.



USB-TPOD for Table-top Installations



Designed to house two PR65R USB chargers. It comes complete with fused internal wiring to allow for a single input source from the vehicle wiring. Using this system up to four USB outlets

(2 x double units) can be made available for charging at tables.

PRPWp USB Charger IP65



This range of 24V input USB chargers has been designed for installation into harsh environments where dust and moisture are prevalent as the electronic circuitry is protected to IP65 (except connector). Due to the slim design, installation can be permitted where rear space is restricted such as passenger seating or carriage side walls. A full range of mounting methods suitable for this range are available too, including the Wall POD pictured below and under seat pod.

USB-WPOD for On-wall Installations

Wall-mounted housing to allow the standard PRPWp range to be installed on the wall of rolling stock without the need of a 30mm drilled hole. It is fixed to the wall with screws hidden by tamper-proof covers and space is provided for a fuse to protect the wiring (recommended).



24Vdc to 12Vdc Voltage Converters



These fully isolated Dc-Dc voltage converters have been specifically designed and tested to meet railway standards EN50121-3-2, EN61373 and EN45545-2. They can be used to power any 12vdc equipment from the 24vdc electrical source and are available with power ratings of 72, 144 and 288 watts.

110Vdc to 12,24 or 48Vdc Voltage Converters



Designed for rolling stock applications, these fully isolated Dc-Dc voltage converters accept an input voltage of 110Vdc from the train's electrical source to offer outputs of 12Vdc, 24Vdc and 48Vdc providing 108 watts of continuous power. Designed and tested to EN50121-3-2, EN61373 and EN45545-2.

ALR3-V Wireless Charger Module for Table Tops



Designed for installation into table tops and media benches on railway carriages to allow passengers the ability to charge their devices on the move. The unit is installed through an 80mm hole in the table and secured underneath, providing an unobtrusive and functional enhancement of the passenger experience.

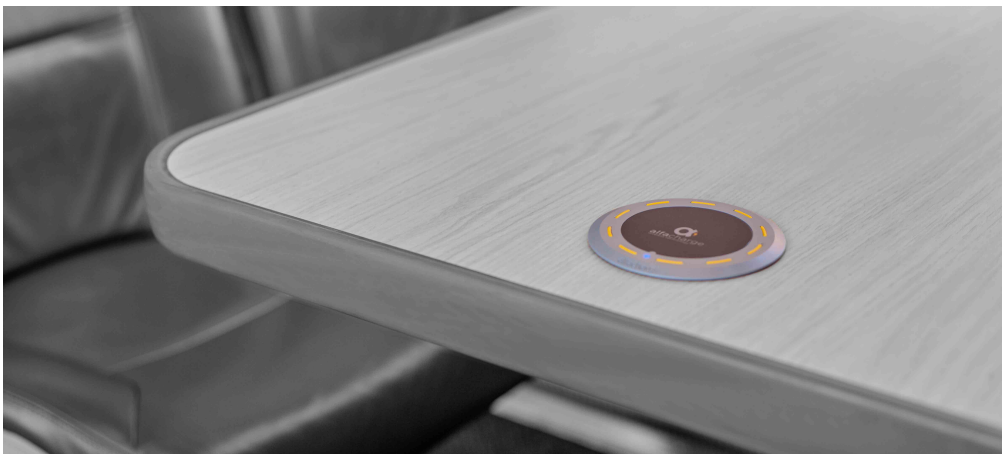
Rail approved to operate on the rolling stock's 24vdc electrical system or can be used in conjunction with the Alfatronix rail approved PRi Series voltage converters to provide the wireless charger with 12vdc.

ALR1-H Wireless Charger Module for Integration



Designed for integration into equipment such as seat backs or tables, permitting wireless charging to be extended to public transport. The module is typically housed in apparatus that enables mobile phones to be retained in position during charging. We recommend keeping the active face of the unit within 2.0mm of the passenger accessible area.

Rail approved to operate on the rolling stock's 24vdc electrical system or can be used in conjunction with the Alfatronix rail approved PRi Series voltage converters to provide the wireless charger with 12vdc.

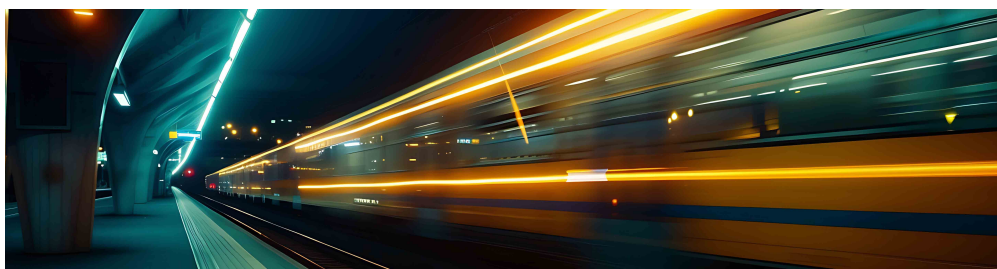


POWERVERTER RAIL PRODUCT OVERVIEW

PR65R-AC	Double output USB charger, Type A and Type C connector, protected to IP65	PRPWp-AC	Double output USB charger, Type A and Type C connector, IP65, short version
PR65R-C	Single output USB charger Type C connector, protected to IP65	PRPWp-C	Single output USB charger Type C connector, protected to IP65, short version
PR65R-CC	Double output USB charger, Type A and Type C connector, protected to IP65	PRPWp-CC	Double output USB charger, Type C and Type C connector, IP65, short version

For the Front fit version, add -Ff to the product code and for alternative LED colours, ring colours and branded rings, please check with our sales team for part numbers.

USB-POD	Pod for under-seat installations	USB-WPOD	Pod for on-wall-installations
USB-TPOD	Pod for table-top installations	Wiring	Contact us regarding wiring enquiries
ALR1-H	Wireless charger module for integration	ALR3- V	Wireless charger module for table top installation
PRI24-12 072	6A isolated 24Vdc to 12Vdc Voltage Converter	PRI24-12 144	12A isolated 24Vdc to 12Vdc Voltage Converter
PRI24-12 288	24A isolated 24Vdc to 12Vdc Voltage Converter	PRI110-12 108	9A isolated 110Vdc to 12Vdc Voltage Converter
PRI110-24 108	4.5A isolated 110Vdc to 24Vdc Voltage Converter	PRI110-48 108	2.3A isolated 110Vdc to 48Vdc Voltage Converter



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POWER DELIVERY PRODUCT OVERVIEW

Product	PDR	Power Delivery Rail, 24V
Output	060C	60W Single Type C Connector
	075AC	75W Total (60W + 15W) Type C + Type A* Connector
	090CC	90W Total (45W + 45W) Dual Type C Connector
Input	-D1	DC Input
LED	B	Blue LED
	W	White LED
	X	No LED
Bezel Colour	G	Light Grey
	K	Dark Grey
	B	Black
Bezel/Case	R	Round Bezel
	S	Square Bezel
	1	Single Pod
	3	Wall Pod (C)
Packaging	S	Single Pack
	B	Bulk Pack
Example	PDR060C-D1BGRS	Power Delivery Rail 24V, 60W Single Type C Connector, DC Input, Blue LED, Light Grey Bezel, Round Bezel, Single Pack
	PDR090CC-D1WKSXB	Power Delivery Rail 24V, 90W Total (45W + 45W) Dual Type C Connector, DC Input, White LED, Dark Grey Bezel, Square Bezel, Bulk Pack

** Type A is Qualcomm® Quick Charge™, can be used for phone/tablet only*

Product parts list is subject to change

PD-POD-1	Single pod for under-seat installations	PD-WPOD-3	Single pod for wall installations (C version only)
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To check out our full and latest range of rail approved power products, please visit www.alfatronix.com/rail or scan the QR code.

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RAILWAY PRODUCT INSTALLATION EXAMPLES



VOLTAGE CONVERTERS
ACCEPTING INPUT OF 110VDC
TO OUTPUT 12VDC, 24VDC
OR 48VDC FOR POWERING
ANCILLARY EQUIPMENT.



**ALR3-V WIRELESS
CHARGER FOR TABLE TOP
INSTALLATIONS**



**USB CHARGER FRONT
FIT VERSION FOR SEAT
BACK AND SIDE WALL
INSTALLATIONS**



**VOLTAGE
CONVERTERS TO
CONVERT 24VDC -
12VDC WITH POWER
RATINGS UP TO 288
WATTS.**



**ALR1-H INTEGRATED WIRELESS
CHARGER FOR "SEAMLESS"
TABLE TOP OR SEAT
INSTALLATIONS**



**USB POWER DELIVERY
CHARGER FOR SEAT
BACK AND SIDE WALL
INSTALLATIONS**



**USB CHARGER FOR
SEAT BACK AND SIDE
WALL INSTALLATIONS**



British manufacturer of Wireless & USB Chargers, Voltage Converters, Power Supplies, Low Voltage Disconnects and Battery Chargers for OEM and after market supply.

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