A & C PORT USB CHARGING FOR 12V AND 24VDC APPLICATIONS

The ever-popular PowerVerter PVPro Range of USB chargers has now been updated to include USB-C options, expanding on the great design concepts of USB charging on vehicles. Models are now available offering combined Dual USB A & C and Single USB-C output versions.

As well as standard (rear fit), all models are also available in front fit versions. This is a popular option for when rear space access is limited, and also allows for quick removal and replacement if required.

Ingress protection is to IP30 as standard. However, the PVPWp versions retain the slimline design and offer enhanced protection to IP65 (not connectors). The ruggedised PV65R versions which are also IP65 (not connectors), offer additional transient protection and are particularly suitable in more demanding environments such as for installation into vehicle walls.

Output power performance has also been enhanced. As well as charging both Apple and Android mobile phones, the USB-C models offer higher current outputs for limited charge assistance on tablets and laptops.

Standard versions require only 20mm (typical) rear space and can easily be installed in bus and coach seat backs, walls and dashboards. A series of installation pod designs enable retrofit options for underseat, table and wall mounting.



Protective pod for under seat or retrofit installation. Can be supplied with charger, pod & wiring ready assembled.

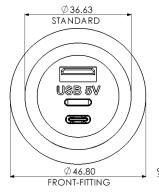
THE RANGE

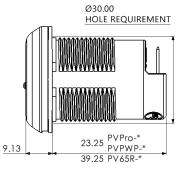
All units are installed through a 30mm hole. Standard format units are retained by a rear nut while the front fit versions include a bezel with tamperproof cover ring. Input power is by way of two 6.3mm push-in flat fit automotive terminals.

Dimensionally the USB A and C Chargers are the same and are interchangeable with the ever-popular PVPro Range. Electronically the designs include reverse polarity protection and the output withstands short circuit current and will return back to full operation when the short is removed.



PVPro-C Single output C connector







PVPro-AC
Dual output A
& C connector



IP65 versions available PV65R - ruggedised and PVPWp, both IP65 rated; indicated by yellow rear cap

The new A & C range has the following key benefits:

- Both type-A and type-C outputs
- Apple and Android compatible
- Dashboard, slimline seat back or underseat pod configurations
- · LED output indicator
- IP30 or IP65 ingress protection -see Product Overview
- CE, E and UKCA marked



All products are available in front fit options for when rear access is



WARRANTY

The PVPro A and C range of chargers are manufactured using rugged components to provide years of service in demanding commercial environments and are covered by a three year return to base guarantee.

CHOOSE YOUR USB PRODUCT

PART NUMBER	DESCRIPTION	DIMENSIONS (mm)	WEIGHT
Standard IP30 USB C	hargers:		
PVPro-AC	USB 'A' & 'C' Dual output 12/24-5V, 3.6A	Ø37 x 33; Hole Ø30; Rearspace typ.22	25g
PVPro-C	USB 'C' Single output 12/24-5V, 2.5A	Ø37 x 34; Hole Ø30; Rearspace typ.22	20g
Ruggedised IP65 USI	3 Chargers:		
PV65R-AC	USB 'A' & 'C' Dual output rugged, IP65 12/24-5V, 3.6A	Ø37 x 49; Hole Ø30; Rearspace typ.36	42g
PV65R-C	USB 'C' Single output rugged, IP65 12/24-5V, 2.5A	Ø37 x 50; Hole Ø30; Rearspace typ.36	36g
Slimline IP65 USB Ch	argers:		
PVPWp-AC	USB 'A' & 'C' Dual, slimline, IP65 12/24-5V, 3.6A	Ø37 x 33; Hole Ø30; Rearspace typ.22	31g
PVPWp-C	USB 'C' Single, slimline, IP65 12/24-5V, 2.5A	Ø37 x 34; Hole Ø30; Rearspace typ.22	26g
	please add the suffix Ff, e.g. PVPro-ACFf, PV65R-AC e customised for branding and advertising purposes.	_	idard and
Accessories:			

Accessories:			
USB-POD	Underseat mounting pod for USB chargers	W 60, H 52, D 80	55g
USB-TPOD	Table mounting pod for 2x USB chargers	W 103, H 44.5, D 88	62g
USB-WPOD	Wall mounting pod for USB chargers	W 60.5, H 76, D 26	22g
PV-USB-H1	Standard 1.2 wiring with in line fuse	1x red 1.2m, 1x black 1.2m, 1x 2A fuse	50g

The USB 'A' & 'C' dual output or 'C' single output can be installed with the USB-POD, USB-WPOD or USB-TPOD and appropriate H1 wiring harness to produce a full assembly.

TECHNICAL DATA

9-32Vdc
5.2Vdc +/- 0.2V
Single C: 2.5A, Dual A & C: 3.6A
Charging of USB devices including Apple and Android
Meets ISO7637-2 international standard for 12/24V vehicles
<50mV pk-pk
<2.5mA
Non-isolated >400Vrms between casing and terminals
90%
-25°C to +55°C to meet this specification table
-25°C to +100°C
95% max., non-condensing
Dark grey polycarbonate body, contrasting trim ring
Input: 6.3mm push-in flat blade connectors
Output: USB type-A socket, USB type-C socket
Blue LED output indication
30mm diameter hole, with rear nut or front fit bezel
Limited by current sensing circuit
Limited by temperature sensing circuit
Limited by sensing circuit
Protected by sensing circuit
Protected by filters and rugged component selection
Internal fuse (external fusing recommended)
2014/30/EU The general EMC directive
Regulation 10 The automotive directive
93/68/EEC The CE marking directive
IP65 approved (PV65R and PVPWp)
Regulation R118 (Automotive Fire)
EN50498, ISO 7637-2, R118 & R080
CE, UKCA and E marked
IP30/IP65 according to product selection (For IP65 USB connector excluded). Cleaning: wipe with
damp cloth, do not spray.