POWERVERTER PVPro *A* & *C Range* 12/24VDC USB CHARGERS

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.

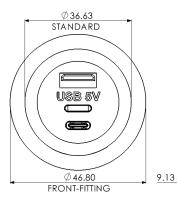
Standard versions require only 20mm (typical) rear space and can easily be installed in bus and coach seat backs, walls and dashboards. A series of installation pod designs enable retrofit options for underseat, table and wall mounting.

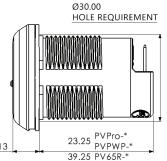


THE RANGE

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 A and C Chargers are the same and are interchangeable with the ever-popular PVPro Range. Electronically the designs include reverse polarity protection and automatic short circuit protection, so in the event of tampering or compromise the unit will shut down, then restart again, once the fault has been 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
- USB A & C dual output available
- 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 limited



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 33; Hole Ø30; Rearspace typ.22	20g
PVPro-AC-ASSY	USB 'A' & 'C' Dual output assembly, 1.2m cable	W 55.6, H 52.9, D 78.5	126g
PVPro-C-ASSY	USB 'C' Single output assembly, 1.2m cable	W 55.6, H 52.9, D 78.5	121g
Ruggedised IP65 US	B 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 49; Hole Ø30; Rearspace typ.36	36g
PV65R-AC-ASSY	USB 'A' & 'C' Dual output rugged assembly, 1.2m cable	W 55.6, H 52.9, D 78.5	150g
PV65R-C-ASSY	USB 'C' Single output rugged assembly, 1.2m cable	W 55.6, H 52.9, D 78.5	144g
Slimline IP65 USB Ch	argers:		
PVPWp-AC	USB 'A' & 'C' Dual, slimline, IP65 12/24-5V, 3.6A	Ø37 x 49; Hole Ø30; typ.22	31g
PVPWp-C	USB 'C' Single, slimline, IP65 12/24-5V, 2.5A	Ø37 x 49; Hole Ø30; typ.22	26g
PVPWp-AC-ASSY	USB 'A' & 'C' Dual, slimline assembly, 1.2m cable	W 55.6, H 52.9, D 78.5	136g
PVPWP-C-ASSY	USB 'C' Single, slimline assembly, 1.2m cable	W 55.6, H 52.9, D 78.5	131g
For front fit versions	please add the suffix Ef. e.g. PVPro-ACEf. PV65P-ACE	If etc. The detachable ring in both star	dard and

For front fit versions, please add the suffix Ff, e.g. PVPro-ACFf, PV65R-ACFf etc. The detachable ring in both standard and front fit format can be customised for branding and advertising purposes. Please ask our sales team.

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

TECHNICAL DATA

Output voltage 5.2Vdc +/- 0.2V Max Output Power Single C: 2.5A, Dual A & C: 3.6A Application Charging of USB devices including Apple and Android Transient voltage protection Meets ISO7637-2 International standard for 12/24V vehicles Output noise <50mV pk-pk Off load current (quiescent current) <2.5mA Isolation Non-isolated >400Vrms between casing and terminals Power conversion efficiency 90% Operating temperature -25°C to +55°C to meet this specification table Storage temperature -25°C to +100°C Operating humidity 95% max., non-condensing Casework Dark grey polycarbonate body, contrasting trim ring Connections Input: 6.3mm push-in flat blade connectors Output: USB 'A' socket, USB 'C' socket Uput: USB 'A' socket, USB 'C' socket Output indicator Blue LED output indication Mounting method 30mm diameter hole, with rear nut or front fit bezel Safe area protection: Over weat Limited by zensing circuit Limited by sensing circuit Protected by filters and rugged component selection Limited by sensing circuit Protected by sensing circuit Protected by sensing circ
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Approvals 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)
EN61373 vibration
Designed to EN50498, ISO 7637-2, R118 & R080
Markings CE, UKCA and E marked
IP Rating IP30/IP65 according to product selection (For IP65 USB connector excluded). Cleaning: wipe with
damp cloth, do not spray.