

Product brochure

Electric power

Alfatronix converters and Power Supplies - Fit and Forget

Categories

- PowerVerter (24Vdc – 12Vdc)
- AD series (AC - DC)
- DD series (DC - DC)
- AD series Desktop
- PowerTector (guards)
- Battery Chargers (AC - DC)
- Battery Chargers (DC - DC)



Marine Parts

Quality and lifetime guarantee

ensures the performance
of your products



Electric power - Alfatronix

Content

PowerVerters	24Vdc to 12Vdc power converters	4
AD series AC to DC	Mains power supplies in 12V, 24V and 48V configurations	6
DD series DC to DC	12V-12V, 24V-24V, 12V-24V and 48V-12V	8
AD series Desktop	Converts mobile radio transceivers for use as desktop base	10
PowerTector	Battery guards as a standard component for your installation	12
Battery Chargers AC-DC	To charge AC to DC	13
Battery Chargers DC-DC	To charge DC to DC	14
Fast delivery	Strategically located warehouses	15



Marine Parts

Specialized in the global distribution of marine radar spare parts and marine products like power voltage converters, antennas, nautic monitors and batteries.

Specifications are subject to change without notice.
AEP Marine Parts is not responsible for typographical errors or obsolescence of products.

PowerVerters

24Vdc to 12Vdc power converters

Operate mass produced 12Vdc equipment from the 24Vdc mobile electrical systems found on most vessels.

DC to DC power converter

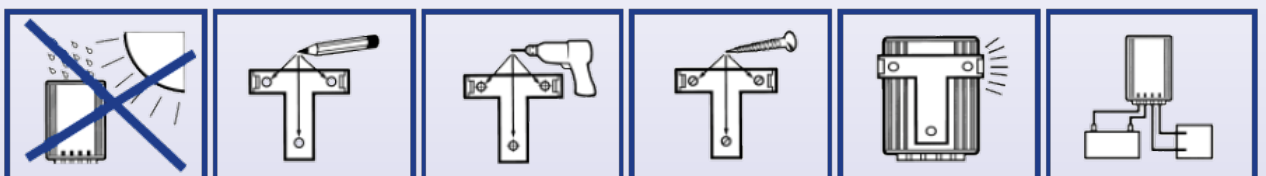
The products are from 3 Amps to 50 Amps in isolated or common earth configurations. They have been optimised for high volume 24Vdc to 12Vdc applications such as on commercial vessels and yachts. The PV-A range is special for dual output with which a switched and permanent or memory connection can be retained.

Easy 6 step installation

You can mount all PowerVerters by means of the three-point connection, to ensure stability.



1. Find a convenient location away from sun and rain.
2. Using the mounting clip as a template, mark fixing positions.
3. Drill screw holes.
4. Fix bracket using screws provided.
5. Clip PowerVerter to mounting bracket.
6. Correctly connect to load.



Stable and easy mounting

Choose your PowerVerter

Which DC to DC power converters can I order?

	Product number	Size (mm)	Weight (g)	Cont./Int. Power	Nominal Voltage
Non - isolated	PV3s	67 x 87 x 50	225	3A/6A	24Vdc input, 12Vdc output
	PV6s	89 x 87 x 50	270	6A/10A	24Vdc input, 12Vdc output
	PV12s	127 x 87 x 50	405	12A/18A	24Vdc input, 12Vdc output
	PV18s	167 x 87 x 50	620	18A/22A	24Vdc input, 12Vdc output
	PV24s	167 x 87 x 50	635	24A/30A	24Vdc input, 12Vdc output
	PV3s-A	67 x 87 x 50	250	3A/6A	24Vdc-12Vdc dual output
	PV12s-A	127 x 87 x 50	455	12A/15A	24Vdc-12Vdc dual output
	DD 24-12 600	300 x 76 x 110	1180	50A/60A	24Vdc input, 12Vdc output
Isolated	PV3i	89 x 87 x 50	290	3A/6A	24Vdc input, 12Vdc output
	PV6i	127 x 87 x 50	410	6A/10A	24Vdc input, 12Vdc output
	PV12i	167 x 87 x 50	590	12A/18A	24Vdc input, 12Vdc output
	PV18i	217 x 87 x 50	835	18A/22A	24Vdc input, 12Vdc output
	PV24i	217 x 87 x 50	850	24A	24Vdc input, 12Vdc output
	PV6i-R*	144 x 87 x 46	560	6A/10A	24Vdc input, 12Vdc output
	PV12i-R*	184 x 87 x 46	600	12A/18A	24Vdc input, 12Vdc output

* Railway approved

All products meet the requirements of FCC Class B.





AD series

Mains power supplies in 12V, 24V and 48V configurations

These units are widely used throughout the world to provide reliable power supplies to radio repeaters for long range transmissions.

AC to DC power supply

The units will accept either European 230Vac or US 115Vac inputs and are available as standard in 12V, 24V and 48V dc output configurations. Auto-Select input is also available. Input is via a standard IEC-320 C13/14 power cord with UK, European or US mains plugs.



Rugged and Compact

These units are housed in a rugged, corrosion resistant anodized aluminium extrusion. The low mass surface mount technology components offer excellent resistance to shock and vibration, thus further increasing the reliability of these products.

Which AC to DC power supplies can I order?

Product number			Size (mm)	Weight (g)	Power (W)
Output voltage 12Vdc	Output voltage 24Vdc	Output voltage 48Vdc			
AD115/230-12* 036	AD115/230-24* 036	AD115/230-48* 036	165 x 87 x 59	675	36
AD115/230-12* 072	AD115/230-24* 072	AD115/230-48* 072	165 x 87 x 59	675	72
AD115/230-12* 108	AD115/230-24* 108	AD115/230-48* 108	165 x 87 x 59	675	108
AD115/230-12* 168	AD115/230-24* 168	AD115/230-48* 168	215 x 87 x 59	900	168
AD115/230-12* 240	AD115/230-24* 240	AD115/230-48* 240	255 x 87 x 59	1150	240

The AD Series supplies have transient, overload and overheat protection for reliable operation even in the toughest environments. A red LED indicates when there is output from the converter. This gives reassurance to the installation engineer and speeds fault finding.

Focused power supply

provides the necessary
energy



DD series

12V-12V, 24V-24V, 12V-24V and 48V-12V

You can configure your system even if your ship and equipment have different voltages, stabilise your voltage or isolate your power supply.

DC to DC power supply/stabilizer

This series consists of voltage converters for mobile electrical systems as used on vessels and small marine craft. All these products are CE marked and those suitable for road traffic vehicles are also e-marked. They all meet the requirements of FCC Class B.



Fast Installation

All the products fit onto a 'Click 'n' fit' mounting clip which is fixed in three points allowing it to be mounted on uneven surfaces.* A green LED indicates when there is output from the converter. Please view the next page for all regular models.



Choose your DD series product

Which DC to DC power supplies/stabilizer can I order?

	Product number	Nominal voltage	Size (mm)	Weight (g)	Power
Non - isolated	DD12-24 072	12Vdc input, 24Vdc output	89 x 87 x 50	300	72W (3A) non-isolated
	DD12-24 168	12Vdc input, 24Vdc output	167 x 87 x 50	640	168W (7A) non-isolated
	DD12-24 240	12Vdc input, 24Vdc output	217 x 87 x 50	820	240W (7A) non-isolated
	DD48-12 072	48Vdc input, 12Vdc output	89 x 87 x 50	260	72W (6A) non-isolated
	DD48-12 108	48Vdc input, 12Vdc output	127 x 87 x 50	360	108W (9A) non-isolated
Isolated	DDi12-12 036	12Vdc input, 12Vdc output	89 x 87 x 50	290	36W (3A) isolated
	DDi12-12 072	12Vdc input, 12Vdc output	167 x 87 x 50	540	72W (6A) isolated
	DDi24-24 072	24Vdc input, 24Vdc output	127 x 87 x 50	440	72W (3A) isolated
	DDi24-24 108	24Vdc input, 24Vdc output	167 x 87 x 50	540	108W (4.5A) isolated
	DDi24-24 168	24Vdc input, 24Vdc output	217 x 87 x 50	780	168W (7A) isolated
	DDi24-24 240	24Vdc input, 24Vdc output	217 x 87 x 62	880	240W (10A) isolated





AD series Desktop

Converts mobile radio transceivers for use as desktop base

These units are designed to fit with a large number of radio receivers of many manufacturers.

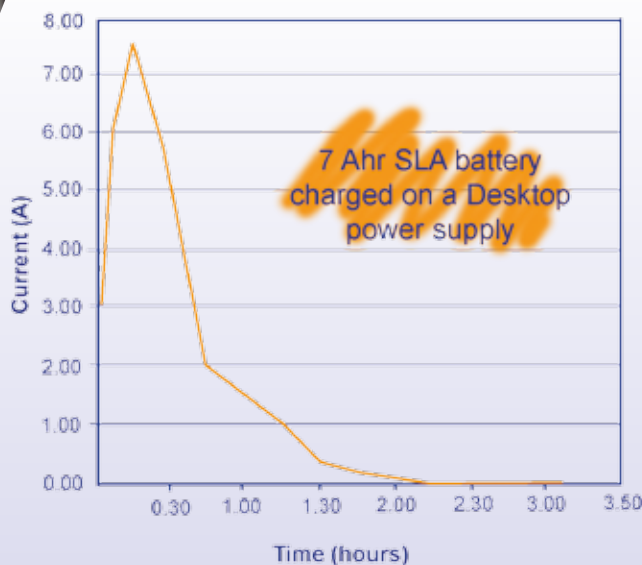
Desktop Power Supply

They will operate from AC supplies, either 115V or 230V without manual adjustment. The continuous rating is 108W (9A), sufficient for most radio transceivers on the market. If you have a more powerful radio choose the HP14 versions, capable of supplying 14 Amps continuous power for radios in transmit mode.



A wide range of application

There are desktop power supplies available for the most common used radios. However, if you use a variety of radio types or cannot find a compatible unit, try the UNIVERSAL unit, P/N AD UN UNI.



Choose your AD series Desktop product

Which desktop power supplies can I order?

Product number	Manufacturer	For these transceiver varieties
AD MT-3100/DM	Motorola	DM 3400, DM 3401, DM 3600, DM3601, DM4400, DM4401, DM4600, DM4601, PRO3100, PRO5100, PRO7100, GM340, GM640, GM350, GM360, GM660, GM380
AD MT-CM	Motorola	CM-140, CM-160, CM-340, CM-360
AD KW TK-762	Kenwood	TK-760, TK-860, TK-762, TK-780, TK-880, TK-980, TK-981
AD KW TK-7102H	Kenwood	TK-7180, TK-7189E, TK-8180, TK-8189, TK-7360, TK-8360
AD KW TK-7160	Kenwood	TK-7160, TK-7162, TK-8160, TK-8162, TK-7102, TK-8102
AD IC IC-F310	Icom	IC-F310s, IC-F410s, IC-F310, IC-F410, IC-F510, IC-F610, IC-F320s, IC-F420s, IC-F320, IC-F420, IC-F520
AD IC IC-F1700	Icom	IC-F1710, IC-F2710, IC-F1810, IC-F2810
AD IC IC-F1010	Icom	IC-F1010, IC-F2010, IC-F1020, IC-F2020, IC-F1610, IC-F2610, IC-A110 Euro
AD IC IC-F110	Icom	IC-F110, IC-F110S, IC-F210, IC-F210S, IC-F121, IC-F121S, IC-F221, IC-F221S, IC-F111, IC-F211, IC-F111S, IC-F211S
AD TA-8000	Tait	TM-8105, TM-8110, TM-8115
AD VS VX-2200	Yaesu/Vertex	VX2200E, VX2100E
AD VS FP-2500	Yaesu/Vertex	VX-2000V, VX-2000U, FP-2500E
AD VS VX-4500	Yaesu/Vertex	VX-4500 / 4600
AD VS VX-4104	Yaesu/Vertex	VS-4104-0-50, VX4100E, VX4200E
AD MX PM160	Maxon	PM100, PM160
AD NK EA-TMR880	Nokia EADS	TMR880
AD NK EA-TMR880i	Nokia EADS	TMR880i, TMR880i remote head
AD NR-M400	Novel	NM-60-100, NM-60-400
AD HYT TM 600	HYTERA	TM600, TM610
AD HYT 785	HYTERA	MD785, MT 680
AD UN UNI	- A L L -	Universal wedge base unit to fit any radio
AD BBB	Battery Back Up	Battery back up box including fitted 7Ah battery - Turnkey solution
AD BBB NB	Battery Back Up	Battery back up box excluding battery



AD BBB

Add HP14 to the product number if the 14A version is required. Otherwise leave blank.

PowerTector

Battery guards as a standard component for your installation

Innovative battery guards that protects your battery and vessel from damage due to total discharge.

Fully Programmable

All units in the range are supplied pre-programmed for a variety of scenarios offering higher or lower disconnect voltages: quick and simple to select your needed programme. To ensure that there is always sufficient voltage remaining in the battery to start a vessel engine or ensure power is available for other critical applications.



Wide and easy to deploy

This device can be used to connect with multiple equipment. Audible alarm and/or visual indicator can be installed in the dashboard or cockpit to alert operator of a potential problem.

Which battery guards can I order?

Type	Size (mm)	Weight (g)	Power	Input voltage
PT10	155 x 30 x 15	45	10A continuous	9Vdc-32Vdc (Automatic Referencing)
PT20	155 x 30 x 15	45	20A continuous	
PT40	76 x 78 x 33	155	40A continuous	
PT60	76 x 78 x 33	155	60A continuous	
PT100	124 x 97 x 51	530	100A continuous	
PT200	124 x 97 x 51	530	200A continuous	

All units are protected to IP65, so are fully waterproof. The terminals are insulated from each other to avoid accidental short circuit or unintentional current bypass and also houses the programming terminal.





Battery Chargers

To charge AC to DC

An ideal way of charging any type of lead acid battery safely and reliably.

Intelligent Charging System

Charging is through a 3 stage system. The first stage is the bulk charging phase. When the current is below 10% of the maximum output, the charger automatically adjusts to reduce the output voltage to reliably top up the battery (stage 2). At stage 3 the green LED is illuminated indicating that the battery is fully charged.



Preserves a minimum value of the voltage level

Should the voltage level fall below the nominal values during the maintenance stage, the charger will go back to step one and repeat the process as described above.

Which battery chargers AC-DC can I order?

Product number	Size (mm)	Weight (g)	Nominal Voltage (V)	Max load (A)	Input voltage	Capacity (W)
IC 230-12 108 AC-DC	185 x 87 x 45	850	12	7	230Vac	108
IC 230-24 108 AC-DC	185 x 87 x 45	850	24	3		108
IC 230-12 240 AC-DC	185 x 87 x 57	1450	12	17		240
IC 230-24 300 AC-DC	185 x 87 x 57	1450	24	12		300

The chargers are enclosed in a rugged, anodised aluminium extrusion protected from dust, damp and impact to IP65.

Battery Chargers

To charge DC to DC

Provide independent power and protects against battery source drainage.

Many Key Features

These intelligent battery chargers operate a four stage charging cycle. The first stage monitors the battery to establish that the battery is in good condition before starting the three stage process as described at the former page. The units are also reverse polarity protected and when re-connected correctly will operate normally without reset.



Range Development

The development of this range of products is on-going. DC-DC chargers are suitable for providing auxiliary power on a wide variety of vehicles/vessels including commercial and leisure marine.

Which battery chargers DC-DC can I order?

Product number	Size (mm)	Weight (g)	Nominal Voltage*	Cont/Int Power
ICi 24-12 144 DC-DC	167 x 87 x 50	600	24Vdc input, 12Vdc output	12A isolated
ICi 24-24 144 DC-DC	167 x 87 x 50	600	24Vdc input, 24Vdc output	6A isolated
ICi 12-12 072 DC-DC	167 x 87 x 50	600	12Vdc input, 12Vdc output	6A isolated

These chargers are enclosed in casework of anodised aluminium and glass filled polycarbonate. Dust, water and impact resistance to IP533.

Quick delivery

Strategically located warehouses





www.aepmarineparts.com



Marine Parts

Address: van Hennaertweg 9 | 2952 CA Alblasterdam
The Netherlands
Phone: +31 (0)78 692 0999
Fax: +31 (0)78 692 0990
Email: sales@aepmarineparts.com

