

AD Series *"The Wedge"* Desktop Power Supplies

Desktop Power Supplies

The Desktop Power Supplies, popularly called the "Wedge" due to its distinctive ergonomically friendly shape, offer a convenient way to convert 12Vdc mobile radio transceivers for use as desktop base stations. 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.

We started making these for Motorola radios 5 years ago, now we have 18 varieties for 8 manufacturers.

Designed for Ease of Use

The wedge gets its name from its unique shape which is designed to angle the radio towards the user for ease of operation. A microphone clip is supplied for each side of the radio (except universal units) for either left or right handed operators. A red LED indicates when the output from the unit is supplied from the mains. If a battery back up has been fitted, and the mains supply should fail, a yellow LED will light, indicating that the output is supplied from the back up battery providing the operator with reassurance of the status of the equipment.

Can't find what you're looking for?

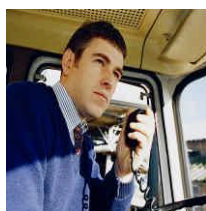
Alfatronix Desktop "wedge" power supplies are configured to suit a wide range of radio transceivers from many manufacturers – see list overleaf. However, if you use a variety of radio types or cannot find a compatible unit, try our UNIVERSAL unit, P/N AD UN UNI. This uses a mechanical interlocking fixing system (3M "Dual Lock") to fix the transceiver securely to the power supply.

Product Coding

The product codes are developed to be as intuitive as possible. Taking the Motorola AD MT 3100 as an example: AD denotes the Alfatronix AD Series MT denotes the radio manufacturer (Motorola) 3100 denotes a popular radio compatible with this unit.

AD	Alfatronix AD Series
MT	Denotes the radio manufacturer. In this case Motorola
3100	Denotes a popular radio compatible with this unit.

Please note: Like most part numbers, the 3100 fits a **range** of radios, not just the 3100. See overleaf for a complete list.



AlfaTRONIX

Integrated Battery Back Up Facility

The product has a built in battery back up facility which will allow the supply to continuously trickle charge a battery which will automatically power the transceiver in the event of a mains supply cut.

Radio Transceiver
+
Alfatronix Desktop Power Supply
+
Alfatronix Battery Back Up Box
=
Fully Integrated Solution

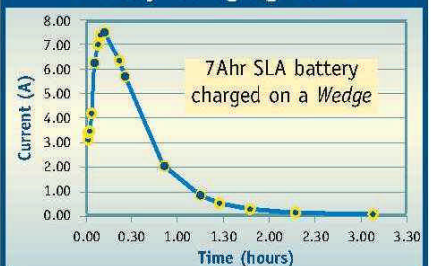


The desktop units are supplied with endplates configured to fit with your radio – see complete list overleaf.



For a complete system, order our fully compatible battery back up box – P/N AD BBB (to include a 7Ah battery) or AD BBB NB (excluding the battery).

Battery Charging Curve



Choose your *Wedge* Desktop Power Supply

Manufacturer	Order these Part numbers from Alfatronix.....to fit these transceiver varieties
Motorola	AD MT 3100	PRO3100, PRO5100, PRO7100, GM340, GM640, GM350, GM360, GM660, GM380
Motorola	AD MT-CM	CM-140, CM-160, CM-340, CM-360
Motorola NEW	AD MT-DM	DM 3400, DM 3401, DM 3600 & DM 3601
Kenwood	AD KW TK-762	TK-760, TK-860, TK-762, TK-780, TK-880, TK-980, TK-981
Kenwood	AD KW TK-7102H	TK-7180, TK-7189E, TK-8180, TK8189E
Kenwood	AD KW TK-7160	TK-7160, TK-7162, TK-8160, TK-8162, TK-7102, TK-8102
Icom	AD IC IC-F310	IC-F310s, IC-F410s, IC-F310, IC-F410, IC-F510, IC-F610, IC-F320s, IC-F420s, IC-F320, IC-F420, IC-F520
Icom	AD IC IC-F1700	IC-F1710, IC-F2710, IC-F1810, IC-F2810
Icom	AD IC IC-F1010	IC-F1010, IC-F2010, IC-F1020, IC-F2020, IC-F1610, IC-F2610, IC-A110 Euro
Icom	AD IC IC-F110	IC-F110, IC-F110S, IC-F210, IC-F210S, IC-F121, IC-F121S, IC-F221, IC-F221S, IC-F111, IC-F211, IC-F111S, IC-F211S
Icom NEW	AD IC IC F-5062	IC-F5062, IC-F6062
Tait	AD TA-8000	TM-8105, TM-8110, TM-8115
Yaesu/Vertex	AD VS VX-2200	VX2200E, VX2100E
Yaesu/Vertex	AD VS FP-2500	VX-2000V, VX-2000U, FP-2500E
Yaesu/Vertex	AD VS VX-4104	VS-4104-0-50, VX4100E, VX4200E
Maxon	AD MX PM160	PM100, PM160
Nokia EADS	AD NK EA-TMR880	TMR880
Nokia EADS	AD NK EA-TMR880i	TMR880i, TMR880i remote head
Novel	AD NR-M400	NM-60-100, NM-60-400
HYT NEW	AD HYT TM 600	TM600, TM610
-- A L L --	AD UN UNI	Our most popular unit - Universal wedge base unit to fit any radio
Battery Back Up	AD BBB	Battery back up box including fitted 7Ah battery – Turnkey solution
Battery Back Up	AD BBB NB	Battery back up box excluding battery. Please purchase a 7Ah GEL battery locally

Technical Data

Input voltage range	Auto-Select, 85-135Vac and 170-265Vac, 47-440Hz
Output voltage options	13.6Vdc. Worst case limits are +/- 4%
Output noise	<50mV pk-pk at continuous load
Power Conversion Efficiency	Typically 85%
Isolation between input and case/output	1.5kVac/3.0kVac rms
Isolation casework to ground	Connected directly to mains input ground
Normal operating temperature	-25°C to +30°C to meet this specification table +30°C to +70°C de-rate linearly to 0A
Storage Temperature	-25°C to +100°C
Max case temperature	70°C at full load with 25°C ambient
Operating humidity	95% max, non-condensing
Casework	Anodized aluminium
Connections: Input	IEC-320 C14 socket, C13 terminated cordset
Output	6.3mm push-on blade terminals
Ground	Stud with crimp eyelet, adjacent to input
Output Indicator	Red LED adjacent to output terminals
Mounting Method	4 x Rubber feet. DIN rails clips available as a special order
Safe area protection:	
Over Current	Limited by current sensing circuit
Over heat	Limited by temperature sensing circuit
Output over voltage	Protected by independent shut down circuit
Transients	Protected by filters and rugged components
Catastrophic failure	Protected by input and output fuses
Approvals	2004/108/EC The general EMC directive 2006/95/EC The low voltage directive 93/68/EEC The CE marking directive
Tested to	EN50081-1, EN50082-1, EN55014-1, EN61000-3-3, EN60950, EN60945, UL1950, CSA950-95, FCC Class "B", VDE0805
Markings	CE

Weights and Dimensions

	Width	Depth	Height	Weight
AD UN UNI	168mm	125mm	58mm	800g
AD BBB	163mm	145mm	70mm	2810g
AD BBB NB	163mm	145mm	70mm	318g

NOTE: The general body of all wedges measure as above. The endplates protrude further to allow fixing to the radio.



For mains battery chargers, please ask for the **IC Series** information



For regular "brick in the lead" power supplies, please ask for the **AD Series** information



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