

AD SERIES DESKTOP POWER SUPPLIES

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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 and output of 12Vdc at 9Amps.



- We started making these for Motorola radios in 2002, now we have 27 varieties for 11 manufacturers.
- The desktop units are supplied with end-plates configured to fit with your radio – see complete list.
- 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).



Radio Transceiver + Alfatronix Desktop Power Supply + Alfatronix Battery Back Up Box

BATTERY BACK UP BOX

The AD Series Desktop Power Supplies include a battery back up output as standard. This can be connected to maintain charge in a lead acid battery to supply power in the event of a mains failure. As a neat alternative to a loose battery, Alfatronix also supply a battery back up box, P/N AD BBB. This is designed to fit underneath the desktop supply and radio assembly and includes a 7Ah lead acid gel battery, presenting all three components as one tidy desktop assembly.

The battery back up box also includes a speaker (mounted on the front of the unit) for those wishing to use hands free radio operation.

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. However, if you use a variety of radio not listed, or cannot find

a compatible unit, try our UNIVERSAL unit (P/N AD UN UNI). This uses a mechanical interlocking fixing system ("hook and loop") to fix the transceiver securely to the power supply.

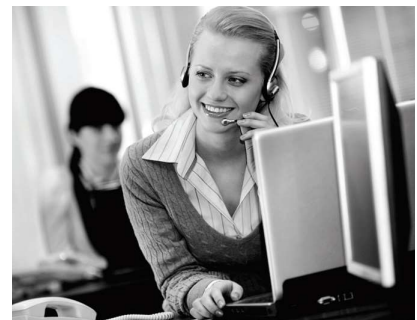
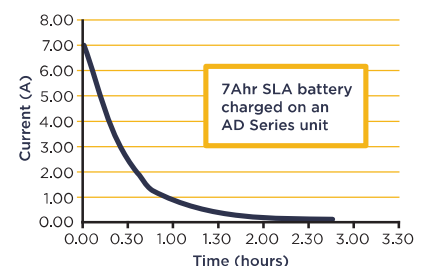
PRODUCT CODING

The product codes are developed to be as intuitive as possible. Taking the Motorola AD MT CM as an example:

AD	AC input & DC output
MT	Denotes the radio manufacturer, in this case Motorola
CM	Denotes a popular radio compatible with this unit

Please note: Like most part numbers, the CM fits a range of radios, not just the CM.

BATTERY CHARGING CURVE



TECHNICAL DATA

Input voltage range	Auto-select, 85-135Vac and 170-265Vac, 50Hz/60Hz		
Output voltage & current	13.6Vdc. Worst case limits are +/- 4% 108W (9A)		
Output Noise	<50mV pk-pk at continuous load		
Power Conversion Efficiency	Typically 83%		
Isolation between input and case/output	1.5kVac/3.0kVac rms		
Isolation between 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 aluminum, glass-filled polycarbonate		
Connections:	Input	IEC-320 C14 socket, C13 terminated cordset	
	Output	6.3mm push-on blade terminals	
	Ground	6.3mm push-on blade terminals, adjacent to output (additional external ground if required)	
Output indicator	Green LED mains output on Orange LED battery back up mode		
Mounting method	By rubber feet on base and direct attachment to radio above.		
Safe area protection:	Over current	Limited by current sensing circuit	
	Over heat	Limited by temperature sensing circuit	
	Transients	Protected by filters and rugged component selection	
	Catastrophic protection	Protected by internal input and output fuses	
Approvals	2014/30/EU The general EMC directive 2014/35/EU The low voltage directive 93/68/EEC The CE marking directive		
Designed to	EN62368 & EN61204-3		
Markings	CE & UKCA marked		

	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 end-plates protrude further to allow fixing to the radio.

Technical Note: AD BBB contains SLA Battery 12V 7Ahr, both AD BBB and AD BBB NB contain Speaker 8 OHM 3W