AD SERIES
115/230 VAC MAINS POWER SUPPLIES

alfatronix POWER. NO COMPROMISE.

MAINS POWER SUPPLIES IN 12 V, 24 V, & 48 V CONFIGURATIONS

The AD Series units may be used to supply mobile radios and other appliances from AC mains used in offices, portable site cabins, communication cabins, telephone exchanges, remote antenna sites, ships, oil rigs, etc. The units will accept either European 230 VAC or US 115 VAC inputs and are available as standard in 12 V, 24 V, and 48 V output configurations. Input is via a standard IEC-320 C13/14 power cord with UK, European, or US mains plugs - please state your requirement.

AD Series Power supplies can also be fitted with DIN rail clips for rack mounted applications.

RUGGED AND COMPACT

These units, often referred to as 'brick in the lead' supplies are housed in a rugged, corrosion resistant anodised aluminium extrusion. The low mass surface-mount technology components offer excellent resistance to shock and vibration, thus further increasing the reliability of these products.

A green LED indicates when there is output from the converter. This gives reassurance to the installation engineer and speeds fault finding.

BATTERY CHARGING REQUIRED?

A fixed voltage battery charging facility is also available with the supplementary loom; P/N AD BB loom.

FAST INSTALLATION

There's nothing worse than a power supply lying around on the floor. The T-shaped mounting clip, common to many Alfatronix products, allows the power supplies to be installed quickly and simply in many out-of-the-way locations, such as underneath desks or on walls. The 3-point 'T' clip can be fitted securely, even on uneven surfaces, quickly and simply, and then the power supply simply 'clips' in place.

FULL CIRCUIT PROTECTION

The AD Series supplies have transient, overload, and overheat protection for reliable operation even in the toughest environments.

PRODUCT CODING

The product code is derived as follows, taking the AD 115/230-12 108 as an example:

AD	AC input and DC output
115/230	Denotes auto select US or European AC input voltage
-12	Nominal 12 VDC output
108	108 w capacity unit

DESKTOP VERSIONS ALSO AVAILABLE

While the brick power supplies offer a versatile solution if you are powering a mobile radio, try our Desktop Versions. These are configured to attach to the radio forming one dedicated unit and are available for a variety of radios including Motorola, Hytera, Tait, Kenwood, Icom, Maxon, and Vertex.

AD SERIES PRODUCT

TAE Part No.		Output Voltage			Dimensions	Weight
		12 VDC	24 VDC	48 VDC		
T286512815	OE No.	AD 115/230-12 036 (3 A)	AD 115/230-24 036 (1.5 A)	AD 115/230-48 036 (0.75 A)	174 x 87 x 62 mm	675 g
TBA		AD 115/230-12 072 (6 A)	AD 115/230-24 072 (3 A)	AD 115/230-48 072 (1.5 A)	174 x 87 x 62 mm	675 g
TBA		AD 115/230-12 108 (9 A)	AD 115/230-24 108 (4.5 A)	AD 115/230-48 108 (2.25 A)	174 x 87 x 62 mm	675 g
TBA		AD 115/230-12 168 (14 A)	AD 115/230-24 168 (7 A)	AD 115/230-48 168 (3.5 A)	225 x 87 x 62 mm	900 g
T286512806		AD 115/230-12 240 (20 A)	AD 115/230-24 240 (10 A)	AD 115/230-48 240 (5 A)	264 x 87 x 62 mm	1 150 g
Additional Loom for battery charging - P/N: AD BB Loom						

TECHNICAL DATA

Input Voltage Range		Auto-Select, 85–135 VAC and 170–265 VAC, 50/60 Hz
Output Voltage Options		13.6 VDC, 27.2 VDC or 54.4 VDC, as ordered. Worst case limits are ± 4%
Output Noise		<50 mV pk-pk at continuous load (100 mV on 24 V versions, 200 mV on 48 V versions)
Power Conversion Efficiency		Typically 83%
Isolation Between Input And Case/Output **Isolation Between Casework To Ground**		1.5k VAC/3.0k VAC rms 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 0 A
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		Anodised aluminium, glass-filled polycarbonate
Connections:	**Input** **Output** **Ground**	IEC-320 C14 socket, C13 terminated cordset 6.3 mm push-on blade terminals 6.3 mm push-on blade terminals, adjacent to input (additional external ground if required)
Output Indicator		Green LED adjacent to output terminals
Mounting Method		'Click 'n' fit' mounting clip or rubber feet. DIN rail clips available if required.
Safe Area Protection:	**Over Current** **Over Heat** **Transients** **Catastrophic Protection**	Limited by current-sensing circuit Limited by temperature-sensing circuit Protected by filters and rugged component selection 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 and UKCA marked

POWER SUPPLY

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These products may not be stock items. Please speak to our sales representative about lead times. Lead times, price, and availability can only be determined on receipt of an official quote from our supplier. This can sometimes take up to 3 days.