

GRAS 12AL

1 CCP A



Connection: CCP

Channel(s): 1

GRAS 12AL CCP

CCP

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- Power supply for CCP transducers and preamplifiers
- General-purposes measurements
- Precision measurements
- Wide-band measurements
- Switchable A-weighting network
- Low noise
- Battery operated

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The 12AL will supply a transducer with a constant current of 4 mA. It has a wide operating frequency range from about 1 Hz (depending on load impedance) to well over 200 kHz. It also has an A-weighting filter that can be switched in or out.

The 12AL can be powered by either two internal AA alkaline batteries or an external 3–6 VDC power source. Both the AA batteries and the AB0005 6 VDC power supply are included.

LEDs are used to indicate battery condition; green for power OK and red for battery low. Another red LED is used to indicate a cable break, short circuit, and overload.

The 12AL has zero gain since the output signal from the transducer is wired directly via 22 F to the output connector. Zero gain is also preserved at 1 kHz when the A-weighting network has been switched in.

The size and weight of the 12AL make it a compact and handy power supply for CCP transducers both in the laboratory and in the field.

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12AL 2

CONDITIONING		
Frequency response (± 3.0 dB) (with 10 k load)	Hz	0.7 to 200 k
Frequency response (± 3.0 dB) (with 100 k load)	Hz	0.07 to 200 k
Output channel(s)		1
Output impedance, with A-weighting	Ω	100 in serial with 22 μ F
Output impedance, without A-weighting	Ω	As source in serial with 22 μ F
Direct coupling input to output		No
Inherent noise, A-filter "on" and with dummy microphone (20 Hz to 20 kHz),	μ Vrms	15
Inherent noise, A-filter "off" and with dummy microphone (20 Hz to 20 kHz),	μ Vrms	4
A-weighting filter according to	IEC 61651 Type 0	
Linear mode	Yes	
Type	Constant Current Power (CCP)	
Input channel, CCP	1	
Input channel(s), traditional power supply	1	
CCP preamplifier supply @ +28 V	mA	4
Overload indication	Yes	
PC controllable	No	
External filter option	No	
Power amplifier overload detection	No	
POWER SUPPLY		
Power supply, battery	2 x LR6 (AA)	
Power supply, external	Vdc	3 to 6
Power consumption	mA	50 to 120
Battery life	h	24
Battery low indication	Yes	
Temperature range, operation	$^{\circ}$ C / $^{\circ}$ F	-10 to +50 / 14 to 122

Weight	g / oz	110.00 / 3.88
Weight with batteries	g / oz	160 / 5,6



GRAS AB0005	Mains/line adapter. AB0005 is a 100-240 VAC to 6 VDC power supply that includes exchangeable EU, US, UK, and Type I plugs.
AA alkaline batteries	Batteries included

GRAS Sound & Vibration

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About GRAS Sound & Vibration

GRAS is a worldwide leader in the sound and vibration industry. We develop and manufacture state-of-the-art measurement microphones and related equipment for industries where acoustic measuring accuracy and repeatability are of the utmost importance. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, consumer electronics and other highly demanding industries. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect, trust and require. GRAS Sound & Vibration is represented through subsidiaries and distributors in more than 40 countries and is part of Axiometrix Solutions, a leading test solutions provider comprised of globally recognized measurement brands. Read more at www.grasacoustics.com

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