

GRAS 12AL

1 通道 CCP 电源模块，带 A 计权滤波器



Connection: CCP
Channel(s): 1

GRAS 12AL CCP 恒流电源) 是一款低噪单通道电源，适用于 CCP 传感器和前置放大器。

典型应用

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

设计

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 μ 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.

保修

所有GRAS产品均采用优质材料制造，确保产品具有卓

越的长期稳定性和耐久性 12AL 提供 2 年保修，但因使用不当导致的损坏不在保修范围内。

服务与维修

所有维修均在位于丹麦的 GRAS 国际支持中心进行。我们的支持中心配备了最新的测试设备，并拥有技术精湛的专业工程师。根据要求，我们会按照固定的维修类别进行成本估算。在质保期内的产品送修时，如非人为操作不当或违反保修条款导致的损坏，将享受免费维修服务。

CONDITIONING		
Frequency response (± 3.0 dB) (with 10 k Ω load)	Hz	0.7 to 200 k
Frequency response (± 3.0 dB) (with 100 k Ω 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 controlable		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

标配

[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

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GRAS Worldwide

Subsidiaries and distributors in more than 40 countries

HEAD OFFICE, DENMARK

GRAS SOUND & VIBRATION
Skovlytoften 33
2840 Holte
Denmark
Tel: +45 4566 4046
www.GRASacoustics.com
gras@grasacoustics.com

USA

GRAS SOUND & VIBRATION
9290 SW Nimbus Avenue
Beaverton, OR 97008
Tel: 503-627-0832
Toll Free: 800-231-7350
www.GRASacoustics.com
sales-usa@grasacoustics.com

UK

GRAS SOUND & VIBRATION
Unit 115, Gibson House,
Ermine Business Park, Huntingdon,
Cambridgeshire, PE29 6XU
Tel: +44 (0)7762 584 202
www.GRASacoustics.com
sales-uk@grasacoustics.com

CHINA

GRAS SOUND & VIBRATION
Room 502, Building T1,
No.1398 Ali Center
Shenchang Road,
Minhang District,
Shanghai, China, 201107
Tel: +86 21 400-888-9826
www.GRASacoustics.cn
cnsales@grasacoustics.com



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 to industries where acoustic measuring accuracy and repeatability is of utmost importance in R&D, QA and production. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, and consumer electronics. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect and trust.

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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