

MODEL 2100E21-400

SMARTAMP™ POWER AMPLIFIER FOR POWERING ELECTRODYNAMIC EXCITERS



BENEFITS:

- Revolutionary **GREEN** design provides 92% efficient, environmentally friendly operation
- High performance, ultra low noise digital amplifier includes intelligent capabilities such as:
 - Interlock switch for overtravel protection of shaker armature
 - Clipping detection algorithm provides real-time warning feedback of signal distortion
 - DC fault detection algorithm provides automatic shutdown of supply signal
 - Auxiliary input available for variety of sensor inputs for additional automatic shutdown protection
 - SmartAmp feedback points eliminate hassles from output fuses while still protecting amplifier, shaker and test structure
 - Over-current and over-temperature protection
 - Safe start-up with signal output in mute mode
 - Real-time voltage, current and power indicators
- Silent operation provides for a noise-free test environment
- Supplies 400 W output power at 4 Ω load impedance
- Front panel, continuous gain adjustment up to 26 dB
- Flat frequency response to 40 kHz
- Lightweight—just 8.5 lb (3.8 kg) 860-4867



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**SPECIFICATIONS:****PERFORMANCE**

Efficiency ^[1]	%	92
Output Voltage ^[2] , max	V RMS	38
Current Limit ^[3]	A peak	18
Output Power ^[4]	W	400
Distortion ^[5]	%	< 0.1
Frequency Response, +0 / -3 dB, 4 Ω load	Hz	0.4 to 40 000
Max. Voltage Gain	dB	26
Input Impedance	kΩ	10
Output Impedance ^[6]	mΩ	30
Cooling ^[7]		Convection
Protection Features		Interlock Switch DC Fault Detection Clip Detection Over-Current Detection / Over-Temperature Detection Safe Start in Mute Mode

ELECTRICAL

Input Power		
Voltage	V AC	100-120 or 220-240
Frequency	Hz	48 to 62

MECHANICAL

Front Panel Display	LCD	Two row, four function keys
Dimensions (W x H x D)	cm (in)	44 x 9 x 37 (17.3 x 3.5 x 14.6)
Weight	kg (lb)	3.8 (8.5)
Input Connector		BNC Jack
Output Connectors		Screw Terminals
Interlock Connectors		Screw Terminals

[1] at full power output

[2] at 4 Ω load impedance, 1 kHz, THD 0.1%

[3] typical, over-current protection limited

[4] at 4 Ω load impedance, 1 kHz, THD 0.6%

[5] typical, THD + noise 10 Hz - 20 kHz, 2 Ω load, 50 W

[6] at frequencies less than 1 kHz

[7] 40 mm silent fan, automatically controlled

INCLUDED ACCESSORIES:

Power Cable
 Rack Mounting Brackets
 Rubber Feet
 Spare Fuses

RELATED PRODUCTS:

2025E	Modal Shaker, 58 N (13 lbf) pk sine force, 18 mm (0.75 in) pk-pk stroke, through-hole armature design
2060E	Modal Shaker, 267 N (60 lbf) pk sine force, 36 mm (1.4 in) pk-pk stroke, through-hole armature design
2075E	Shaker, 334 N (75 lbf) pk sine force, 25.4 mm (1 in) pk-pk stroke, through-hole armature, 83 mm (3.25 in) table
2100E11	Modal Shaker, 440 N (100 lbf) pk sine force, 25.4 mm (1 in) stroke, through-hole armature design



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