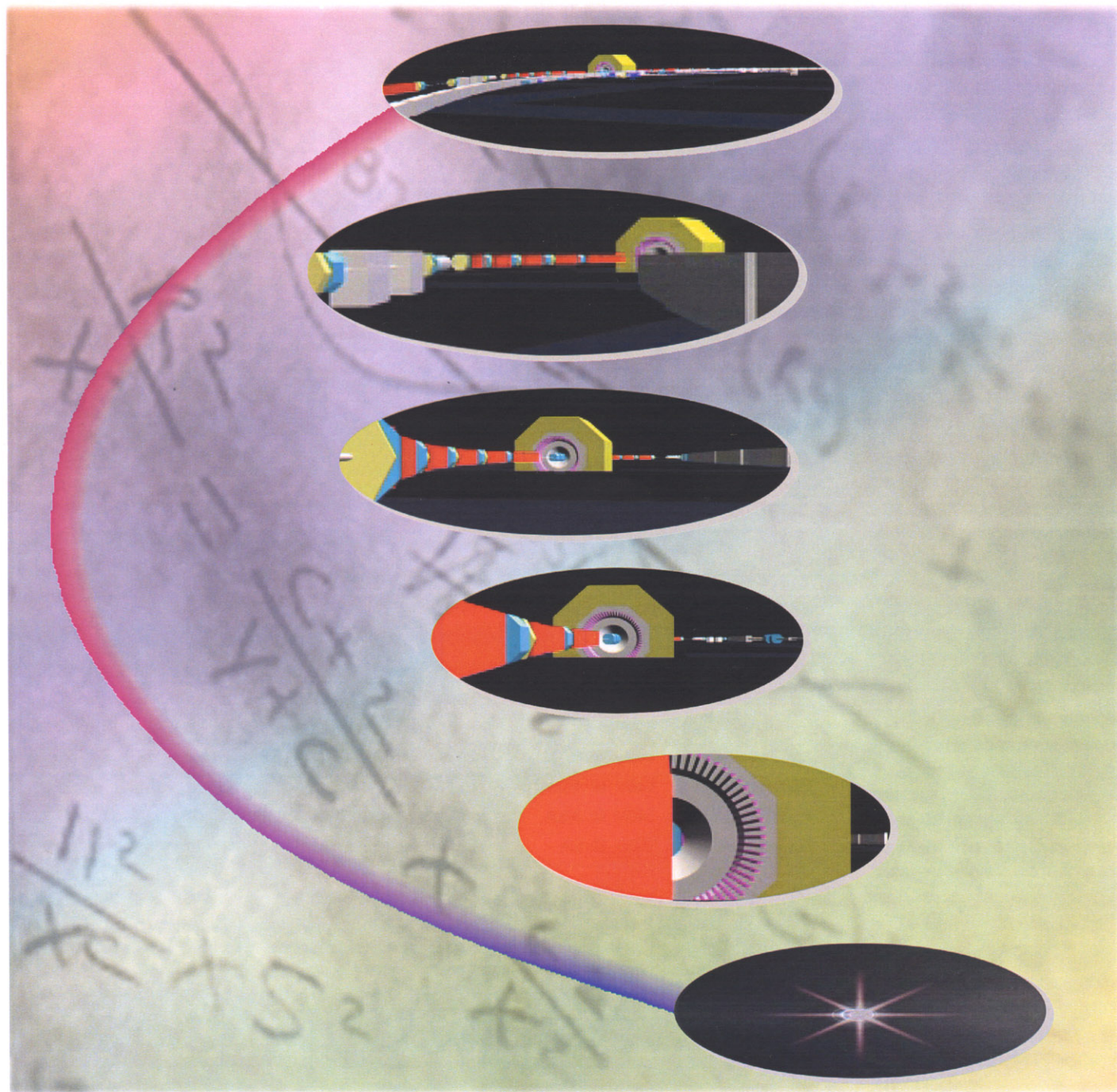


Bipolar/Unipolar Power Supplies for Particle Guidance



The Technical Edge



www.copleycontrols.com

Amplifier/System Selection Guide

Filtered Output Amplifiers & Systems Output ($\pm A$ Peak) — Pulse Duration/Offtime (ms)

$\pm 75V$ Output Voltage

Model	DC	500/500	100/100	10/20	170/1000	25/1000	4/100
220	12	12	22	22	22	22	22

$\pm 150V$ Output Voltage

Model	DC	500/500	100/100	10/20	170/1000	25/1000	4/100	EHC*
230	10	10	15	15	15	15	15	—
231P	60	75	85	100	100	125	125	—
232P	120	150	170	200	200	250	250	—
234P02	225	280	318	375	400	500	500	—
234P04	300	375	440	500	500	625	625	650**
235P	300	375	425	500	500	625	625	—

$\pm 200V$ Output Voltage

Model	DC	500/500	100/100	10/20	170/1000	25/1000	4/100
231P11	45	56	64	85	85	94	94

$\pm 300V$ Output Voltage

Model	DC	500/500	100/100	10/20	170/1000	25/1000	4/100
261P	25	31	35	42	50	62	62
262PN	85	106	120	142	142	177	177
263P	128	160	180	213	213	266	266
265P	150	187	212	250	250	312	312

$\pm 350V$ Output Voltage

Model	DC	500/500	100/33	100/100	20/40	170/1000	5/15	100/150	20/25	EHC*
266	250	312	—	350	430	430	475	—	—	—
266EHC	250	312	—	350	430	430	475	—	—	475**
271/274	250	—	335	475	—	—	—	500	500	600**

$\pm 700V$ Output Voltage

Model	DC	500/500	100/100	20/40	5/15
283	200	312	350	430	430

Notes: * EHC = Extra High Current Mode - Allows operation at increased RMS rating, duration depends on ambient temp

** Model 274: 484Arms, Model 266 & Model 234P04: 300Arms

Technology

As the first company to deliver PWM amplifiers for beam steering and magnetic correction elements, market insights gained from our broad experience and OEM partnerships have resulted in technical features such as:

MOSFET & IGBT Mounting

Allows very high peak ratings to take advantage of short-term thermal characteristics of the devices.

Peak Current Rating

A larger "safe operating" zone to take advantage of the devices in this application.

High Current Mode (EHC)

Four models include EHC, which allows operation at high output current levels for several minutes duration, with semiconductor junctions continuously monitored to ensure safe and reliable performance.

IGBT/MOSFET Testing

Application specific screening of all IGBTs and MOSFETs used in Copley Amplifiers.

Settling Time And Stability

Precision current control to obtain fast settling and low crosstalk are

particularly important for particle guidance applications.



Power Supplies

160VDC	330 VDC	400VDC	420VDC
• 2.5kW	• 2.5kW	• 15kW	• 15kW
• 5kW	• 5kW		• 20kW Peak
• 10kW	• 10kW		
• 15kW	• 15kW		

Cabinets

Bud	Schroff
24U	25U
35U	29U
40U	34U

Accessories

- Capacitor Banks
- Power Distribution Units (PDU)

An ISO 9001 Certified Company Since 1994 Copley Controls has maintained its ISO 9001 certification (UL certifying agent), which reinforces our continued commitment to the highest possible global standards of production.