

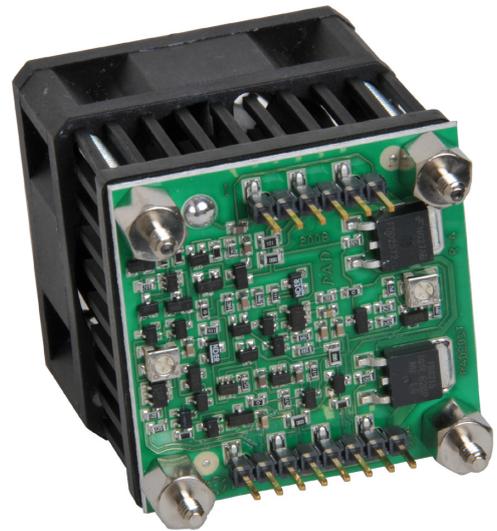
±5V – ±1025V, 10W – 450W Power Operational Amplifier Modules

FEATURES

- Up to ±1025V / 2050V
- Up to 30A / 40A_P
- High Power Density
- Up to 450W Output Power
- High Speed up to 350kHz
- External Compensation
- PCB Mountable
- Integrated Cooling Fans
- Programmable Current Limit
- Over Temperature Shutdown
- Temperature Monitor
- Evaluation Kits Available

APPLICATIONS

- Piezo Driver
- Industrial Ink Jet Head Driver
- Magnetic deflection
- Semiconductor Testing
- Ultrasound Transducer Driver



MODEL	SUPPLY VOLTAGE	OUTPUT CURRENT OUTPUT POWER	MAX. POWER DISSIPATION	POWER BANDW. SLEW RATE	DIMENSIONS L x W x H FEATURES
PAD01 	±15V - ±50V 30V – 100V	5A / 7A _P 50W	30W	100kHz @ 90V _{PP} 35V/μs	30.0 x 30.0 x 37.5mm ³ External compensation, programmable current limit
PAD04 	±15V - ±100V 30V – 200V	5A / 7A _P 60W	30W	350kHz @ 180V _{PP} 200V/μs	30.0 x 30.0 x 37.5mm ³ External compensation
PAD20 	±15V - ±75V 30V – 150V	5A / 7A _P 80W	40W	10kHz @ 130V _{PP} 5V/μs	40.0 x 40.0 x 53.2mm ³ Temperature monitor, over-temp shutdown, 4-wire current limit
PAD38 	±15V - ±100V 30V – 200V	10A / 25A _P 250W	125W	33kHz @ 180V _{PP} 10V/μs	52.3 x 41.5 x 11.4mm ³ External compensation, programmable current limit

MODEL	SUPPLY VOLTAGE	OUTPUT CURRENT OUTPUT POWER	MAX. POWER DISSIPATION	POWER BANDW. SLEW RATE	DIMENSIONS L x W x H FEATURES
PAD39 	±15V - ±50V 30V - 100V	10A / 25A _P 200W	125W	80kHz @ 80V _{PP} 10V/μs	52.3 x 41.5 x 11.4mm ³ External compensation, programmable current limit
PAD108 	±15V - ±100V 30V - 200V	10A / 12A _P 200W	100W	300kHz @ 180V _{PP} 170V/μs	63.3 x 41.4 x 11.4mm ³ External compensation, programmable current limit
PAD111 	±15V - ±50V 30V - 100V	15A / 50A _P 250W	170W	500kHz @ 90V _{PP} 130V/μs	63.3 x 41.4 x 11.4mm ³ External compensation, programmable current limit
PAD112 	±15V - ±75V 30V - 150V	5A / 7A _P 100W	50W	30kHz @ 130V _{PP} 14V/μs	49.8 x 49.8 x 41.9mm ³ Temperature monitor, over-temp shutdown, 4-wire current limit
PAD113 	±15V - ±250V 30V - 500V	1.5A / 3A _P 96W	29W	15kHz @ 480V _{PP} 40V/μs	49.8 x 49.8 x 31.9mm ³ Temperature monitor, over-temp shutdown, 4-wire current limit
PAD115A 	±10V - ±150V 20V - 300V	20A / 30A _P 400W	165W	7kHz @ 280V _{PP} 8V/μs	60.0 x 60.0 x 67.3mm ³ Temperature monitor, over-temp shutdown
PAD117A 	±5V - ±50V 10V - 100V	15A / 20A _P 250W	100W	23kHz @ 90V _{PP} 8V/μs	60.0 x 60.0 x 58.3mm ³ RRIO, temperature monitor, over-temp shutdown, 4-wire current limit

MODEL	SUPPLY VOLTAGE	OUTPUT CURRENT OUTPUT POWER	MAX. POWER DISSIPATION	POWER BANDW. SLEW RATE	DIMENSIONS L x W x H FEATURES
PAD118 	±10V - ±50V 20V - 100V	30A / 40A _P 400W	165W	20kHz @ 90V _{PP} 8V/μs	60.0 x 60.0 x 67.3mm ³ Temperature monitor, over-temp shutdown
PAD119A 	±10V - ±100V 20V - 200V	20A / 30A _P 400W	165W	20kHz @ 90V _{PP} 8V/μs	60.0 x 60.0 x 67.3mm ³ Temperature monitor, over-temp shutdown
PAD126 	±20V - ±250V 40V - 500V	10A / 12A _P 450W	150W	25kHz @ 480V _{PP} 50V/μs	80.0 x 80.0 x 63.9mm ³ Temperature monitor, over-temp shutdown, 4-wire current limit
PAD127 OBSOLETE replaced by PAD157 	±5V - ±50V 10V - 100V	30A / 40A _P 450W	225W	10kHz @ 90V _{PP} 8V/μs	80.0 x 80.0 x 63.9mm ³ RRIO, temperature monitor, over-temp shutdown, 4-wire current limit
PAD128 	±10V - ±50V 20V - 100V	20A / 30A _P 400W	140W	20kHz @ 90V _{PP} 16V/μs	60.0 x 60.0 x 67.3mm ³ RRIO, temperature monitor, over-temp shutdown, 4-wire C/L, low distortion
PAD129 	±10V - ±100V 20V - 200V	15A / 20A _P 400W	140W	20kHz @ 90V _{PP} 37V/μs	60.0 x 60.0 x 67.3mm ³ RRIO, temperature monitor, over-temp shutdown, 4-wire C/L, high power bandwidth
PAD135 	±15V - ±100V 30V - 200V	5A / 10A _P 80W	40W	350kHz @ 180V _{PP} 200V/μs	40.0 x 40.0 x 53.2mm ³ Low cost, high power bandwidth, 200V/μs slew rate

MODEL	SUPPLY VOLTAGE	OUTPUT CURRENT OUTPUT POWER	MAX. POWER DISSIPATION	POWER BANDW. SLEW RATE	DIMENSIONS L x W x H FEATURES
PAD136 	±15V - ±100V 30V - 200V	7A / 10A _P 150W	100W	350kHz @ 180V _{PP} 200V/μs	45.6 x 39.5 x 11.4mm ³ Low cost, high power bandwidth, 200V/μs slew rate
PAD137 	±5V - ±50V 10V - 100V	20A / 30A _P 400W	140W	23kHz @ 90V _{PP} 8V/μs	60.0 x 60.0 x 67.3mm ³ RRIO, temperature monitor, over-temp shutdown, 4-wire current limit
PAD138 	±15V - ±100V 30V - 200V	10A / 12A _P 240W	75W	30kHz @ 180V _{PP} 30V/μs	40.0 x 40.0 x 53.2mm ³ Low cost, small size, high voltage
PAD141 	±6V - ±50V 12V - 100V	10A / 15A _P 240W	75W	28kHz @ 90V _{PP} 7V/μs	40.0 x 40.0 x 53.2mm ³ Low cost, small size, single supply operation
PAD149 	±15V - ±100V 30V - 200V	10A / 12A _P 240W	125W	150kHz @ 180V _{PP} 100V/μs	Low cost, temperature monitor, short circuit protection, external shutdown
PAD150 	±15V - ±50V 30V - 100V	10A / 20A _P 200W	125W	500kHz @ 90V _{PP} 200V/μs	45.6 x 39.5 x 11.4mm ³ Low cost, high power bandwidth, 200V/μs slew rate small size
PAD157 	±5V - ±50V 10V - 100V	30A / 40A _P 450W	225W	10kHz @ 90V _{PP} 8V/μs	80.0 x 80.0 x 63.9mm ³ RRIO, temperature monitor, over-temp shutdown, 4-wire current limit, no balancing resistors required

MODEL	SUPPLY VOLTAGE	OUTPUT CURRENT OUTPUT POWER	MAX. POWER DISSIPATION	POWER BANDW. SLEW RATE	DIMENSIONS L x W x H FEATURES
PAD183 	±15V - ±175V 30V - 350V	1.5A / 2.0A _P 70W	35W	100kHz @ 330V _{PP} 100V/μs	40.0 x 40.0 x 53.2mm ³ Low cost, small size
PAD188 	±25V - ±262.5V 50V - 525V	0.1A / 0.2A _P 10W	5W	2kHz @ 960V _{PP} 3V/μs	31.6 x 31.6 x 14.9mm ³ High voltage, external compensation, programmable C/L, conformal coated, 1mA quiescent current
PAD189A 	±50V - ±525V 100V - 1050V	1.5A / 1.5A _P 180W	60W	10kHz @ 960V _{PP} 30V/μs	60.0 x 60.0 x 48.3mm ³ High voltage, external compensation, 4-wire current limit, conformal coated
PAD195 	±50V - ±520V 100V - 1040V	0.1A / 0.2A _P 40W	10W	1kHz @ 1000V _{PP} 20V/μs	40.0 x 40.0 x 28.1mm ³ Very high voltage: 1000V _{PP} external compensation, programmable C/L, conformal coated, 1mA quiescent current
PAD196 	±50V - ±1025V 100V - 2050V	0.05A / 0.1A _P 24W	12W	0.5kHz @ 2000V _{PP} 5V/μs	49.8 x 49.8 x 26.3mm ³ Very high voltage: 2000V _{PP} external compensation, programmable C/L, conformal coated, 1mA quiescent current
PAD541 	±10V - ±50V 20V - 100V	5A / 7A _P 100W	50W	57kHz @ 80V _{PP} 14V/μs	50.8 x 3.9 x 16.0mm ³ Low cost SIP design, 16mm height, external compensation, programmable C/L