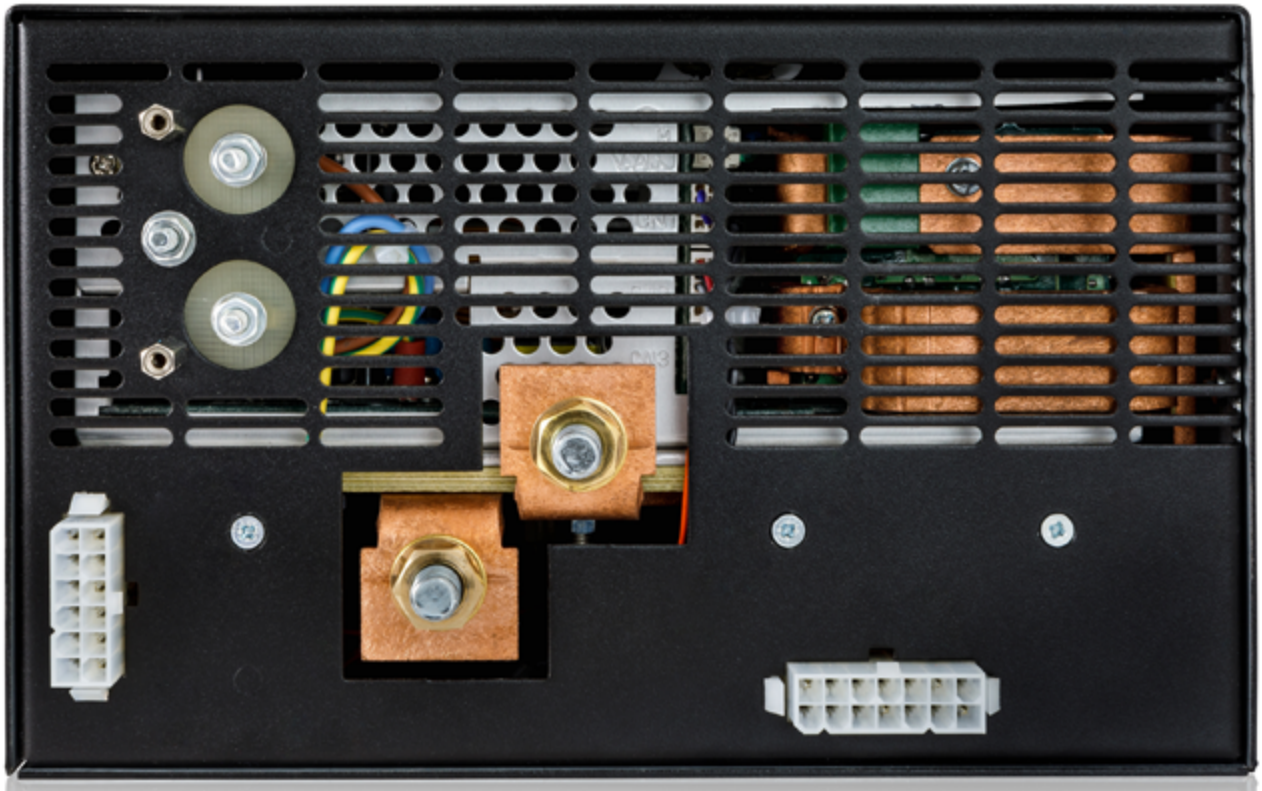
Data Sheet
N1204-APS



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Input Specification

Input Voltage	85-264V AC 120-370V DC
Frequency	47-63Hz
Inrush Current	40A peak typical
Efficiency	77-81% at full load
Power Factor	0.95-0.98 typical
Turn on time	<5 seconds
EMI Filter Standard	CISPR22, EN55022A
Leakage Current	1.5mA max. at 240V AC input
Hold up time	>20ms at full load, 100/200V AC
Harmonic Distortion	Meets EN61000-3-2

Output Specification

Output Rating	0-5V DC at 0-240A
Line Regulation	20mV max at 5V output
Load Regulation	40mV max at 5V output
Ripple & noise	100mV pk to pk max
Current Limit	105-120% of rated current, constant characteristic
Short Circuit	90-130% of rated current
Output Power	1200w max
Overvoltage protection	Voutput +1.0-2.0V
Remote Sense	Compensates for 0.5V max drop
Operating Temp	-20 - +70°C derate > 50°c @ 30w/°c

Caution

1. Connect the power supply correctly. 115/230VAC line voltages can be lethal. To avoid shock, always use correct size and style input connections.
2. The earth wire must always be connected to the earthing point on the input connector to protect against shock hazard due to capacitive leakage.
3. Install power supply correctly. Use correct screw sizes for mounting. Screws must not penetrate the interior of the supply excessively to avoid shorting of internal components.
4. Operate the power supply safely. Power supplies generate heat; allow adequate ventilation at the front & rear for fan intake and exhaust and keep away from combustible materials and gases. Make sure liquid or metal fragments do not enter the supply, as this could constitute a fire hazard.
5. Maximum ambient temperature must not exceed 50°C at 1200W and 70°C at 600W loading.
6. This power supply is intended for use as a component part of other equipment. When installing, the relevant safety standards (e.g. IEC950/VDE0805; EN60950; CSA C22.2 no.950 & no. 234; UL1950) must be complied with.
7. Maintain power supply safely. Only qualified personnel should service or repair this unit. Beware of possible internal lethal voltages due to charged capacitors, even after AC power is disconnected.
8. The power supply has an internal input power fuse which may only be replaced by suitably trained personnel
9. Components such as capacitors are positioned before the internal power supply fuse, therefore the unit must be protected by a fuse in the installation system. Suggested fuse value 30A
10. In case of failure, this power supply should be returned to Advance Product Services Ltd to ensure compliance with safety requirements. Interference with the internals of this unit by any other persons may invalidate the warranty.

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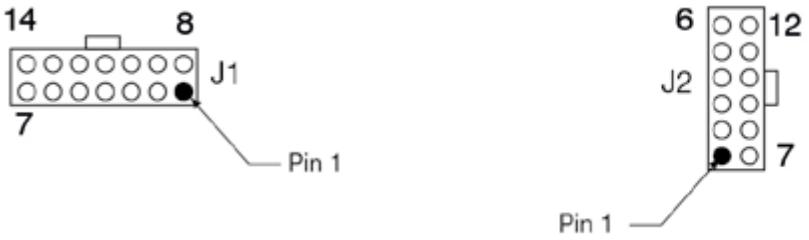
Connection Information

- Mains Input: AC connections are 3 x M4 studs
- Output: DC output connections are 2 x M8 studs
- Control Connector: J1 signal connector is Molex 39-30-1140 or equivalent.
  Mating connector is Molex 39-01-2140 or equivalent.
- J2 signal connector is Molex 39-01-1120 or equivalent. Mating connector is 39-01-2120 or equivalent.
- Signal connector contacts are Molex 39-00-0039 or equivalent.

Signals Information

SIGNAL PIN CONNECTIONS		
Pin No	J1	J2
1	+ Sense (V1)	No Connection
2	No Connection	No Connection
3	No Connection	No Connection
4	- Sense (V1)	No Connection
5	No Connection	No Connection
6	No Connection	Current >20A LED +ve
7	No Connection	Inhibit/Enable
8	No Connection	Fil Demand -ve/Fil Volts -ve
9	Chassis Overtemp LED +ve	Fil Volts +ve
10	No Connection	Fil Demand +ve
11	No Connection	No Connection
12	No Connection	Current >20A LED -ve
13	No Connection	N/A
14	Chassis Overtemp LED -ve	N/A



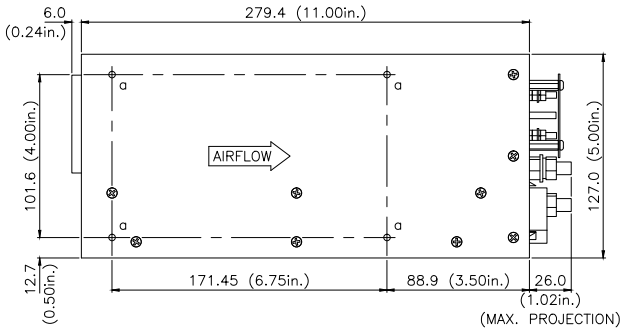
Signals & Programming

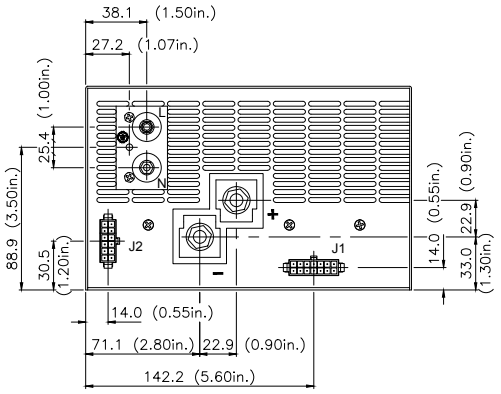
Fil Demand	0-5V isolated programming voltage gives 0-5V output
Programming accuracy	+/-0.5%
Overtemperature	Connect LED directly
Output current >20A	Connect LED directly
Inhibit/Enable	Connect to J2-8 for unit to operate
Fil Volts	0-4V output corresponding to 0-5V output voltage

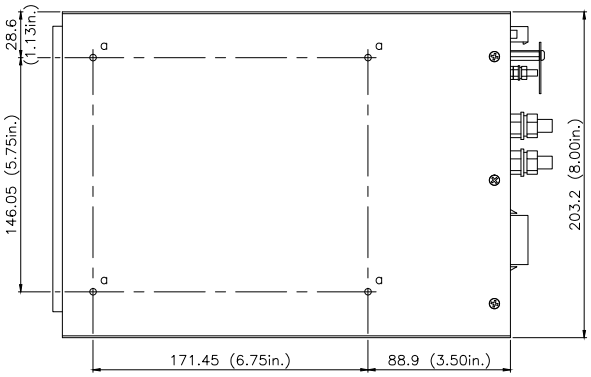
Isolation

Input - Output: AC3000V. Test at DC500V, 50Mohm min
Input - Ground: AC2000V. Test at DC500V, 50Mohm min
Output - Ground: AC500V. Test at DC500V, 50Mohm min

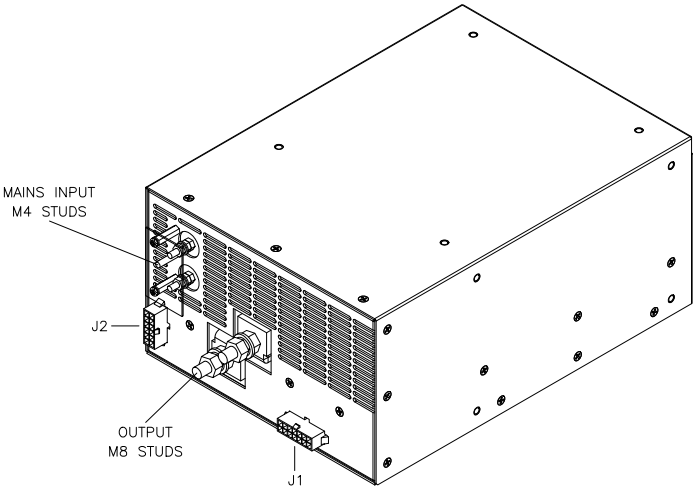
Mechanical Layout







a – 16 x 8–32 UNC FIXINGS (MAX. PENETRATION 7.4mm)
(TOP, BOTTOM AND BOTH SIDES)



THIRD ANGLE PROJECTION.