# NEVO+1200M MEDICAL DATA SHEFT



AC/DC Modular Configurable PSU



The NEVO+1200M is the smallest in its class and the ultimate power solution for medical applications where size, weight, low standby power and primary side inhibit are vital factors and delivers up to 1200 Watts from a 1.2kg 6" x 6" x 1.61" package. Each configured unit consists of an input module with up to eight output modules, where any combination of outputs can be fitted to create a power solution with up to sixteen isolated outputs. Standard features include intelligent fan control, wide output voltage adjust capability and primary side shutdown with standby power consumption of less than 3 Watts. A low noise fan option with virtually silent operation is also available, which allows you to use this innovative power supply in even the quietest of environments. The series carries full IEC/UL60601-1 3rd edition & IEC/UL60601-1-2 4th edition safety approvals, complies with EN61000 Immunity, EN55022-B EMC Standards and features market leading specifications and design in application support.

### MAIN FEATURES

• Up to 1200 Watts of output power • IEC/UL60601-1 Ed. 3 & -1-2 Ed. 4 (EMC) • Accurate current sharing • Primary side remote on/off function Industry leading power density (21W/in<sup>3</sup>) • Parallel and series connection of modules • Standby power ≤ 3 Watts Lightest modular design – only 1.2kg – • 2 x 5V 1A bias supply 1000Watts/kg Field configurable • 6" x 6" x 1.61" footprint Efficiency up to 89% • Low noise fan option Remote current / voltage programming RoHS compliant 3 Year warranty ,PPI ICATIONS • Test & Measurement equipment Laboratory & Analysis equipment • LED lighting Display Robotics • Retrofit of legacy PSUs • Oil & Gas Avionics • Lasers Telecommunications

## STOMER BENEFITS

Fast time to market

- Proven technology
- 24 hrs samples from distribution
- Safety & EMC certified
- World class engineering support
- Eliminates custom design costs
- Field replaceable
- Low cost of ownership
- Technology consolidation Supplier consolidation
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| INPUT MODULE SPECIFICATIONS |  |   |         |      |                  |  |  |  |  |  |  |
|-----------------------------|--|---|---------|------|------------------|--|--|--|--|--|--|
| Parameter                   | Details  | Min                                     | Typical | Max  | Units            |  |  |  |  |  |  |
| AC Input Voltage            | Nominal range is 100V <sub>RMS</sub> to 240V <sub>RMS</sub>                              | 85                                      |         | 264  | V <sub>RMS</sub> |  |  |  |  |  |  |
| AC Input Frequency          | Contact factory for 400Hz operation. 47 50/60 63   |   |         |      |                  |  |  |  |  |  |  |
| DC Input Voltage            | Not covered by safety approvals. Contact Vox Power.                                      | 120                                     |         | 370  | V <sub>DC</sub>  |  |  |  |  |  |  |
| Output Power Rating         | De-rate linearly from 1200Watts at 120V <sub>RMS</sub> to 850Watts at 85V <sub>RMS</sub> |   |         | 1200 | Watts            |  |  |  |  |  |  |
| Input Current               | 1200Watts output at 120V <sub>RMS</sub> input  |   |         | 12   | Amps             |  |  |  |  |  |  |
| Input Current Limit         | Maintains power factor   |   | 14      |      | Amps             |  |  |  |  |  |  |
| Inrush Current              | 265V <sub>RMS</sub> , 25°C (cold start)  | 265V <sub>RMS</sub> , 25°C (cold start) |         |      |                  |  |  |  |  |  |  |
| Fusing                      | Live line fused (5x20 Fast acting)   | 12.5                                    | Amps    |      |                  |  |  |  |  |  |  |
| Efficiency                  | See graphs   |   | 86      | 89   | %                |  |  |  |  |  |  |
| No load Power consumption   | All outputs fitted and disabled/enabled  |   | 32/46   |      | Watts            |  |  |  |  |  |  |
| Standby Power               | Latched off state, 120Vrms   | Latched off state, 120Vrms 2.5          |         |      |                  |  |  |  |  |  |  |
| Power Factor                |  |   | 0.96    | 0.99 |                  |  |  |  |  |  |  |
| Holdup                      | 1200Watts output at 120V <sub>RMS</sub> input  | 17                                      | 20      | 21   | mS               |  |  |  |  |  |  |
| UVP                         | Turn on under voltage protection   | 78                                      |         | 84   | V <sub>RMS</sub> |  |  |  |  |  |  |
| Over temperature            | Internally monitored.  | 115                                     |         | 125  | °C               |  |  |  |  |  |  |
| Reliability (1)             | Input module   |   |         | 1.62 | FPMH             |  |  |  |  |  |  |
|                             | Fan (2 Fans per unit)  |   |         | 2.7  | FPMH             |  |  |  |  |  |  |
| Warranty                    | Standard terms and conditions apply  |   |         | 3    | Years            |  |  |  |  |  |  |
| Size                        | 154.5 (L) x 152.4 (W) x 41.0 (H). See diagram for tolerance details                      |   |         |      | mm               |  |  |  |  |  |  |
| Weight                      | 720 + 60 per output module   |   |         |      | Grams            |  |  |  |  |  |  |
| Note 1.                     | 30°C base & ambient, 100% load, SR332 Issue 2 Method I, Case 3, Ground, Fixed, Co        | ntrolled                                |         |      |                  |  |  |  |  |  |  |

| GLOBAL SIGNALS SPECIFICATIONS |  |          |            |          |       |  |  |  |  |  |  |
|-------------------------------|--|----------|------------|----------|-------|--|--|--|--|--|--|
| Parameter                     | Details  | Min      | Typical    | Max      | Units |  |  |  |  |  |  |
| Bias Voltage                  | Two isolated Bias Outputs available  | 4.8      | 5          | 5.2      | Volts |  |  |  |  |  |  |
| Bias Current                  | Hiccup type current limit  | 0        |            | 1        | Amps  |  |  |  |  |  |  |
| AC_OK Voltage                 | Low output level<br>High output level  | 0<br>3.5 | 0.2<br>4.5 | 1<br>5.2 | Volts |  |  |  |  |  |  |
| AC_OK Current                 |  | -10      |            | 20       | mA    |  |  |  |  |  |  |
| Power Good Voltage            | Low output level. internal 10kΩ pull down.<br>High output level. PNP open collector. | 0<br>8   | 0<br>10    | 0<br>15  | Volts |  |  |  |  |  |  |
| Power Good Current            | Open collector output. Current source only. All Slots.                               |          |            | 20       | mA    |  |  |  |  |  |  |
| Global Inhibit Voltage        | Low input level<br>High input level  | 0<br>3   |            | 1<br>15  | Volts |  |  |  |  |  |  |
| Global Inhibit Current        | 5k input impedance.  | 0.6      |            | 3        | mA    |  |  |  |  |  |  |
| Inhibit Voltage               | Low input level. All slots.<br>High input level. All slots.                          | 0<br>2.5 |            | 1<br>15  | Volts |  |  |  |  |  |  |
| Inhibit Current               | 10k input impedance. All slots.  | 0.25     |            | 1.5      | mA    |  |  |  |  |  |  |
| Primary Bias voltage          | Medically Isolated   | 4.8      | 5          | 5.2      | Volts |  |  |  |  |  |  |
| Primary Bias current          | Hiccup type current limit  |          |            | 0.5      | Amps  |  |  |  |  |  |  |
| Primary Remote On/Off         | Negative Edge Triggered, Refer to User Manual  |          | 5          |          | Volts |  |  |  |  |  |  |

| OUTPUT MODULE SPECIFICATION SUMMARY |          |              |            |                   |                  |                  |                |              |                 |                     |                     |                    |  |
|-------------------------------------|----------|--------------|------------|-------------------|------------------|------------------|----------------|--------------|-----------------|---------------------|---------------------|--------------------|--|
| MODEL                               | Out      | tput Voltage |            | Output            | Rated            | Peak             | Load           | Line         | Cross           | Ripple &            | FPMH <sup>(1)</sup> | Feature            |  |
|                                     | Min.     | Nom.         | Max.       | Current           | Power            | Power            | Reg.           | Reg.         | Reg.            | Noise               |                     | Set <sup>(2)</sup> |  |
| OP1                                 | 1.5V     | 5V           | 7.5V       | 25A               | 125W             | 187.5W           | ±50mV          | ±5mV         | ±10mV           | 50mV <sub>PP</sub>  | 0.5                 | ABCDEFG            |  |
| OP2                                 | 4.5V     | 12V          | 15V        | 15A               | 150W             | 225W             | ±100mV         | ±12mV        | ±24mV           | 120mV <sub>PP</sub> | 0.5                 | ABCDEFG            |  |
| OP3                                 | 9V       | 24V          | 30V        | 7.5A              | 150W             | 225W             | ±150mV         | ±24mV        | ±48mV           | 240mV <sub>PP</sub> | 0.5                 | ABCDEFG            |  |
| OP4                                 | 18V      | 48V          | 58V        | 3.75A             | 150W             | 217.5W           | ±300mV         | ±48mV        | ±96mV           | 480mV <sub>PP</sub> | 0.5                 | ABCDEFG            |  |
| OP5                                 | 3.3V     | 12V          | 15V        | 5A                | 2x 75W           | 2x 75W           | ±50mV          | ±12mV        | ±24mV           | 240mV <sub>PP</sub> | 0.75                | AFG                |  |
| OP8                                 | 23.2V    | 24V          | 24.7V      | 3.125A            | 2x 75W           | 2x 75W           | ±100mV         | ±24mV        | ±48mV           | 480mV <sub>PP</sub> | 0.75                | AFG                |  |
| OPA2                                | 4.5V     | 12V          | 15V        | 25A               | 300W             | 375W             | ±100mV         | ±12mV        | ±24mV           | 120mV <sub>PP</sub> | 0.5                 | ABCDEFGH           |  |
| OPA3                                | 9V       | 24V          | 30V        | 15A               | 300W             | 450W             | ±150mV         | ±24mV        | ±48mV           | $240 mV_{PP}$       | 0.5                 | ABCDEFGH           |  |
| Note 1.                             | Output r | nodule, 30°  | C base, 10 | 0% load, SR332    | issue 2 Metho    | d I, Case 3, Gro | und, Fixed, Co | ontrolled    |                 |                     | •                   |                    |  |
| Note 2.                             | A = Rem  | ote Sense, I | 3 = Extern | al Voltage contro | ol. C = External | constant curr    | ent control. D | = Current ou | itput signal. E | = Current share.    | F = Over Voltag     | e protection.      |  |

Note 2. A = Remote Sense, B = External Voltage control, C = External constant current control, D = Current output signal, E = Current share, F = Over Voltage protection, G = Over temperature protection, H = Dual Slot module

| SAFETY SPECIFICATIONS          |  |                                  |                 |  |  |  |  |  |  |
|--------------------------------|--|----------------------------------|-----------------|--|--|--|--|--|--|
| Parameter                      | Details  | Max                              | Units           |  |  |  |  |  |  |
|                                | Input to Output (2 MOPP). Do not perform test on assembled unit <sup>(1)</sup>                           | 4000                             | V <sub>AC</sub> |  |  |  |  |  |  |
| Isolation Voltages             | Input to Chassis (1 MOPP)  | 1500                             | V <sub>AC</sub> |  |  |  |  |  |  |
|                                | Global signals (J2) to Output/Chassis  | 250                              | V <sub>DC</sub> |  |  |  |  |  |  |
|                                | Output to Output/Chassis (Standard modules)  | 250                              | V <sub>DC</sub> |  |  |  |  |  |  |
| Earth Leakage Current          | Normal condition, 264Vac, 63Hz, 25°C   | 300                              | uA              |  |  |  |  |  |  |
| Touch Leakage Current          | Standard modules NC/SFC  | 20/200                           | uA              |  |  |  |  |  |  |
| Patient Leakage Current        | Standard modules 264Vac, 63Hz, 25°C NC/SFC <sup>(2)</sup>  |                                  | uA              |  |  |  |  |  |  |
| Note 1. Testing an assembled u | unit to 4000V <sub>AC</sub> may cause damage. Please refer to application note (APN-002) on Vox Power we | ebsite or contact Vox Power repr | esentative.     |  |  |  |  |  |  |
| Note 2. Not Applicable         |  |                                  |                 |  |  |  |  |  |  |

| INSTALLATION SPECIFICATIONS         |                        |                            |                          |  |  |  |  |  |  |  |  |
|-------------------------------------|------------------------|----------------------------|--------------------------|--|--|--|--|--|--|--|--|
| Parameter Details Parameter Details |                        |                            |                          |  |  |  |  |  |  |  |  |
| Equipment class                     | 1                      | Flammability Rating        | 94V-2                    |  |  |  |  |  |  |  |  |
| Overvoltage category                | II                     | Ingress protection rating  | IP10                     |  |  |  |  |  |  |  |  |
| Material Group                      | IIIb (indoor use only) | ROHS compliance            | 2011/65/EU & 2015/863/EU |  |  |  |  |  |  |  |  |
| Pollution degree                    | 2                      | Intended usage environment | Home Healthcare          |  |  |  |  |  |  |  |  |

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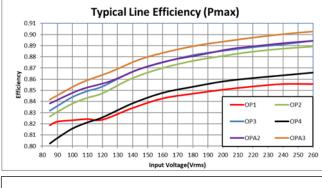
| ENVIRONMENTAL SPECIFICATIONS  |   |                   |   |  |                 |                   |                 |            |     |  |  |  |
|---|---|-------------------|---|--|-----------------|-------------------|-----------------|------------|-----|--|--|--|
|   |   |                   |   | Non-O  | perational      | Opera             | ational         |            |     |  |  |  |
| Parameter   | Details   |                   |   | Min  | Max             | Min               | Max             | Units      |     |  |  |  |
| Air Temperature   | Operational limits subject to   | approp            | riate de-ratings                                |  | -40             | +85               | -20             | 70         | °C  |  |  |  |
| Humidity  | Relative, non-condensing  |                   |   |  | 5               | 95                | 5               | 95         | %   |  |  |  |
| Altitude  |   |                   |   |  | -200            | 5000              | -200            | 3000       | m   |  |  |  |
| Air Pressure  |   |                   |   |  | 52              | 106               | 69              | 106        | kPa |  |  |  |
| Noise Level   | Variable. Measured 1m from  |                   |   |  | -               | -                 | 42              | 65         | dBA |  |  |  |
| Shock   | 3000 bumps at 10G (16ms) h  |                   |   |  |                 |                   |                 |            |     |  |  |  |
| Vibration   | 1.5G 10 to 200Hz sine wave,   |                   | 15min in 3 axes random vibration                |  |                 |                   |                 |            |     |  |  |  |
|   |   | ELE               | CTROMAGNETIC COMPLIA                            | NCE -  | - EMISSIO       | SNC               |                 |            |     |  |  |  |
| Phenomenon  |   |                   | Basic EMC Standard                              |  | Te              | st Details        |                 |            |     |  |  |  |
| Radiated emissions  | s, electric field   |                   | EN55011/22, FCC                                 |  |                 | ss A compliant    | (See note for ( | Class B)   |     |  |  |  |
| Conducted emission  | ons   |                   | EN55011/22, FCC part 15, CISPR 22,              | /11  |                 | ss B compliant    |                 |            |     |  |  |  |
| Harmonic Distortio  |   |                   | IEC61000-3-2                                    |  |                 | mpliant           |                 |            |     |  |  |  |
| Flicker & Fluctuatio  |   |                   | IEC61000-3-3                                    |  |                 | mpliant           |                 |            |     |  |  |  |
| Note: To meet Class B radiated emissions the end user should add ferrites to I/P and O/P cables. Consult Vox Power for details.       |   |                   |   |  |                 |                   |                 |            |     |  |  |  |
| ELECTROMAGNETIC COMPLIANCE – IMMUNITY   |   |                   |   |  |                 |                   |                 |            |     |  |  |  |
| Phenomenon  |   |                   | Basic EMC Standard                              | Test   | Details         |                   |                 |            |     |  |  |  |
| Electrostatic discha  | arge  |                   | IEC61000-4-2                                    |  |                 | air, 8kV contact  |                 |            |     |  |  |  |
| Radiated RF EM fiel   |   |                   | IEC61000-4-3                                    |  |                 |                   |                 |            |     |  |  |  |
| Proximity fields fro<br>equipment   | m RF wireless communications  |                   | IEC61000-4-3                                    | Test levels as per IEC60601-1-2:2014 Table 9                     |                 |                   |                 |            |     |  |  |  |
| Electrical Fast Trans   | sients/bursts   |                   | IEC61000-4-4                                    | Test Level 3: (2kV Power, 1kV I/O) 5kHz(ed3) & 100kHz(ed4)       |                 |                   |                 |            |     |  |  |  |
| Surges  |   |                   | IEC61000-4-5                                    | Test Level 3: 1kV L-N, 2kV L-E                                   |                 |                   |                 |            |     |  |  |  |
| 5   | ances induced by RF fields  |                   | IEC61000-4-6                                    | Test Level 3: 10V, 0.15 to 80Mhz sine wave AM 80% 1kHz           |                 |                   |                 |            |     |  |  |  |
| Power Frequency N   |   |                   | IEC61000-4-8                                    | Test level 4: 30A/m 50Hz   |                 |                   |                 |            |     |  |  |  |
| Voltage Dips  | 5   |                   | IEC61000-4-11& SEMI-F47-0706 <sup>(2)</sup>     |  |                 |                   |                 |            |     |  |  |  |
|   |   |                   |   | 70% 0.5s, 40% 0.2s (Criterion A at 240V and Criterion B at 100V) |                 |                   |                 |            |     |  |  |  |
| Voltage interruptio   |   |                   | IEC61000-4-11                                   | 0% 25  | 0/300 cycle     | as per IEC60601   | -1-2:2014 (Cr   | iterion B) |     |  |  |  |
| C   | Notes:       1.       Criterion A = No degradation of performance or loss of function.         Criterion B = Temporary degradation of performance or loss of function is allowed, provided the function is self-recoverable.         Criterion C = Temporary loss of function is allowed but requires operator intervention to recover. |                   |   |  |                 |                   |                 |            |     |  |  |  |
|   |   |                   | AGENCY APPROV                                   | VALS   |                 |                   |                 |            |     |  |  |  |
| Standard  | dard Details  |                   |   |  |                 |                   |                 |            |     |  |  |  |
|   | - CORR1 2006 + CORR2: 2007  | asic safety and e | essential                                       | UL: E31  | 5486            |                   |                 |            |     |  |  |  |
| + A1:2012   | A11.2011 + A1.2012 +  |                   | mance   | monto for b  | acic cafaty and | accontial         |                 |            |     |  |  |  |
| EN60601-1:2006 + A12:2014   | A11:2011 + A1:2013 +  |                   | al electrical equipment Part 1: Genera<br>mance | require  | ments for b     | asic safety and e | essential       |            |     |  |  |  |
| A12:2014  |   |                   |   | Doguin   | monte fer n     | Dacie Cafoty and  | Eccontial       |            |     |  |  |  |
| CAN/CSA-C22.2 No. 60601-1 (2008) Medical Electrical Equipment Part 1: General Requirements for Basic Safety and Essential Performance |   |                   |   |  |                 |                   |                 |            |     |  |  |  |

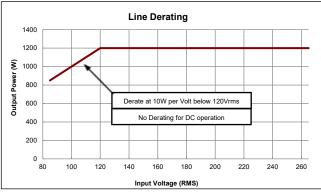
 CHWCS/CC222 Not 50001 1 (2005)
 Performance

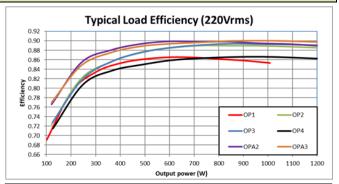
 ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10)
 Medical Electrical Equipment Part 1: General Requirements for Basic Safety and Essential Performance

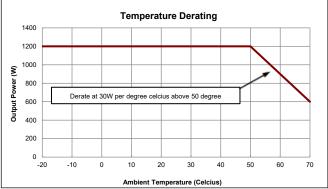
 CE MARK
 LVD 2014/35/EU, EMC 2014/30/EU

 CB certificate and report available on request







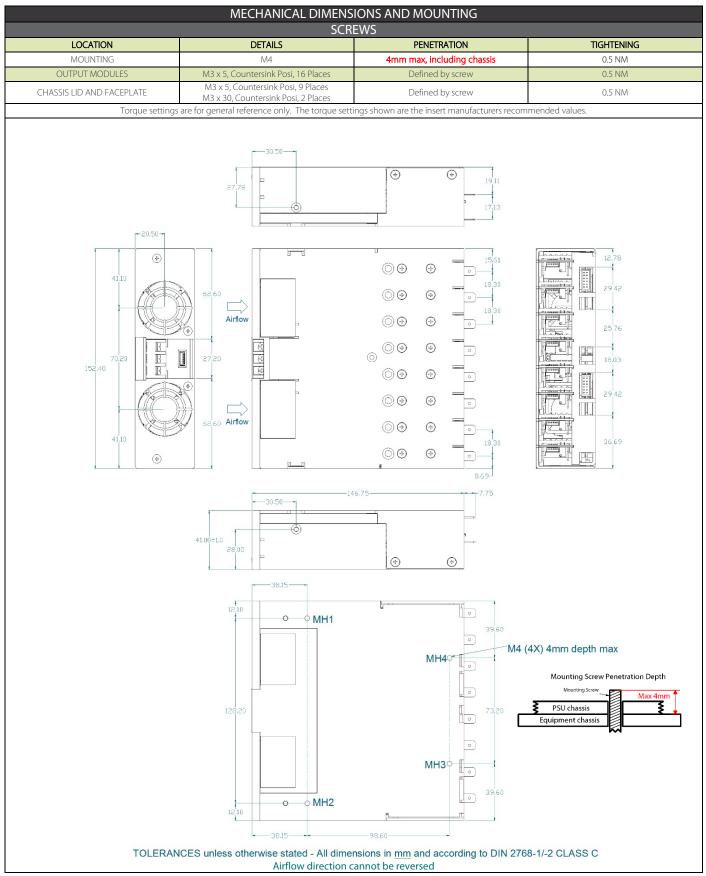


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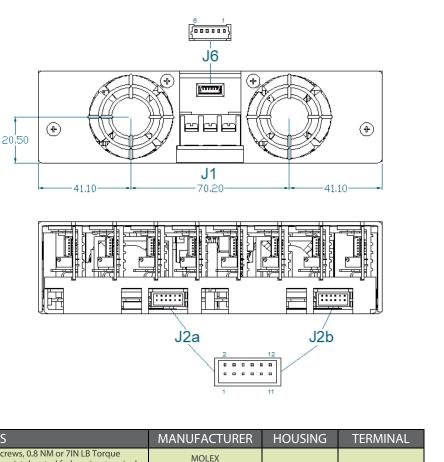


DOC-DTS-004-07, NEVO+1200M Medical Datasheet



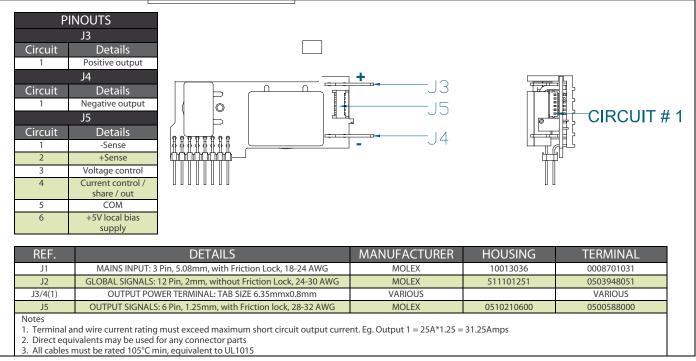
#### CONNECTORS

| PINOUTS         |                    |         |  |  |  |  |  |  |  |  |  |
|-----------------|--------------------|---------|--|--|--|--|--|--|--|--|--|
| J1              |                    |         |  |  |  |  |  |  |  |  |  |
| Circuit         | Details            |         |  |  |  |  |  |  |  |  |  |
| 1               | Live               |         |  |  |  |  |  |  |  |  |  |
| 2               | Earth              |         |  |  |  |  |  |  |  |  |  |
| 3               | Neutral            |         |  |  |  |  |  |  |  |  |  |
| J2a/b           |                    |         |  |  |  |  |  |  |  |  |  |
| Circuit Details |                    |         |  |  |  |  |  |  |  |  |  |
| 1               | Power Good         | Slot    |  |  |  |  |  |  |  |  |  |
| 2               | Inhibit            | A and E |  |  |  |  |  |  |  |  |  |
| 3               | Power Good         | Slot    |  |  |  |  |  |  |  |  |  |
| 4               | Inhibit            | B and F |  |  |  |  |  |  |  |  |  |
| 5               | Power Good         | Slot    |  |  |  |  |  |  |  |  |  |
| 6               | Inhibit            | C and G |  |  |  |  |  |  |  |  |  |
| 7               | Power Good         | Slot    |  |  |  |  |  |  |  |  |  |
| 8               | Inhibit            | D and H |  |  |  |  |  |  |  |  |  |
| 9               | Global Inhibit     |         |  |  |  |  |  |  |  |  |  |
| 10              | AC OK              |         |  |  |  |  |  |  |  |  |  |
| 11              | +5V 1A Bias Supply |         |  |  |  |  |  |  |  |  |  |
| 12              | COM                |         |  |  |  |  |  |  |  |  |  |
|                 | J6                 |         |  |  |  |  |  |  |  |  |  |
| 1               | Common             |         |  |  |  |  |  |  |  |  |  |
| 2               | +5V 500mA Bias     |         |  |  |  |  |  |  |  |  |  |
| 3               | Shut Down          |         |  |  |  |  |  |  |  |  |  |
| 4               | Reserved           |         |  |  |  |  |  |  |  |  |  |
| 5               | Reserved           |         |  |  |  |  |  |  |  |  |  |
| 6               | Reserved           |         |  |  |  |  |  |  |  |  |  |



| REF.  | DETAILS   | MANUFACTURER | HOUSING   | TERMINAL  |
|-------|---|--------------|-----------|-----------|
| J1    | MAINS INPUT: 3 Pin, Barrier, 6-32 Steel Screws, 0.8 NM or 7IN LB Torque<br>Cable 14-18AWG, 300V, 16A, 105°C, use appropriately rated fork or ring terminal. | MOLEX        |           |           |
| J2a/b | GLOBAL SIGNALS: 12 Pin, 2mm, without Friction Lock, 24-30 AWG   | MOLEX        | 511101251 | 503948051 |
| J6    | INPUT BIAS: OUTPUT SIGNALS: 6 Pin, 1.25mm, with Friction lock, 28-32 AWG  | MOLEX        | 510210600 | 500588000 |
|       | quivalents may be used for any connector parts.   |              |           |           |

#### SINGLE OUTPUT MODULE CONNECTORS



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|   |   |            | PA         | RT N   | IUME   | BERS A    | AND OF   | DERIN      | IG INF   | ORMAT      | ION       |   |      |   |   |   |     |   |
|---|---|------------|------------|--------|--------|-----------|----------|------------|----------|------------|-----------|---|------|---|---|---|-----|---|
| NEVO Power<br>Series                              | NEVO+120<br>0                                 | М          | L          | ] - [  | 1      | 1         | 2        | 2          | 3        | 3          | 4         | 4 | -    | 0 | 0 | 0 | ]—  | Factory Use                                     |
| Leakage Current<br>M = Medical,<br>S = Industrial |   |            |            |        |        |           |          |            |          |            |           |   |      |   |   |   |     | USE '0' for<br>unused slots.<br>Blanking plates |
| Fan<br>Blank = Standard,<br>L = Low Noise         |   |            |            |        |        |           |          |            |          |            |           |   |      |   |   |   |     | will be inserted at factory.                    |
| Slot A - Output #                                 |   |            |            |        |        |           |          |            |          |            |           |   |      |   |   |   |     | Slot H - Output #                               |
| Slot B - Output #                                 |   |            |            |        |        |           |          |            |          |            |           |   |      |   |   |   |     | Slot G - Output #                               |
| Slot C - Output #                                 |   |            |            |        |        |           |          |            |          |            |           |   |      |   |   |   |     | Slot F - Output #                               |
| Slot D - Output #                                 |   |            |            |        |        |           |          |            |          |            |           |   |      |   |   |   |     | Slot E - Output #                               |
| Conta   | Industrial inp<br>oct your Distributor c<br>\ | or Vox Pov | wer for sp | pecial | config | uration r | equireme | nts. The f | actory m | ay allocat | e a 3 dig |   | dent |   |   |   | eme | nts.  |

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