



600W Powerful 5" x 3" x 1.61" Small 600g Light

600 Watts in the palm of your hand

Our innovative NEVO+600S modular configurable power supply is the smallest in its class and the ultimate power solution for demanding industrial applications where size, power density and weight are vital factors. Weighing only 600 grams, the compact package of 5" x 3" x 1.61" delivers up to 600 Watts - equating to a power density of 25 Watts per cubic inch. Standard features include intelligent fan control providing optimised airflow for various load and temperature conditions, wide output voltage adjust, parallel and series connection of modules and an isolated 5V 1A bias supply. A low noise fan option is available that allows you to use this innovative power supply in even the quietest of environments.

MAIN FEATURES

- 600 Watts output power
- Power density of (25W/in³)
- Smallest modular footprint
- 5" x 3" x 1.61"
- Wide output voltage adjust range

APPI ICATIONS

• Test & Measurement equipment

- Robotics
- Oil & Gas
- Telecommunications

STOMER BENEFITS

- Fast time to market
- 24 hrs samples from distribution
- Safety & EMC certified
- World class engineering support

- Constant current or voltage operation
 - Parallel & series connection of modules
 - Series Tracker and I2C options
 - Intelligent fan control
 - IEC60950 Ed. 2 & IEC62368-1 Ed. 2
- User and field configurable
- Low noise option (SL version)
- 3 Year warranty

- Laboratory & Analysis equipment • LED lighting
- Display

•

Avionics

- Retrofit of legacy PSUs
- Lasers
- Technology consolidation
- Supplier consolidation

• Field replaceable

Proven technology

Eliminates custom design costs

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SPECIFICATIONS

| | INPUT MODULE SPECIFICATIONS | | | | |
|---------------------------|---|-----------|---------|-------|------------------|
| Parameter | Details | Min | Typical | Max | Units |
| AC Input Voltage | Nominal range is 100V _{RMS} to 240V _{RMS} | 85 | | 264 | V _{RMS} |
| AC Input Frequency | Contact factory for 400Hz operation. 47 | | | 63 | Hz |
| DC Input Voltage | Not covered by safety approvals. Contact Vox Power. | 120 | | 370 | V _{DC} |
| Output Power Rating | De-rate linearly from 600Watts at 120V _{RMS} to 450Watts at 85V _{RMS} | | | 600 | Watts |
| Input Current | 600Watts output at 120 V _{RMS} input | | | 6 | Amps |
| Input Current Limit | Maintains power factor | | 8 | | Amps |
| Inrush Current | 265V _{RMS} , 25°C (cold start) | | | 20 | Amps |
| Fusing | Live line fused (5x20 Fast acting) | | | 8 | Amps |
| Efficiency | See graphs | | 86 | 89 | % |
| No load Power consumption | All outputs fitted and disabled/enabled | | 21/28 | | Watts |
| Power Factor | Typical value for 300 Watts output at 240Vrms input | | 0.96 | 0.99 | |
| Holdup | 600Watts output at 120V _{RMS} input | 17 | 20 | 21 | mS |
| UVP | Turn on under voltage protection | 78 | | 84 | V _{RMS} |
| Over temperature | Internally monitored. | 115 | | 125 | °C |
| Reliability (1) | Input module | • | - | 1.207 | FPMH |
| | Fan | | | 2.7 | FPMH |
| Warranty | Standard terms and conditions apply | | | 3 | Years |
| Size | 133.7 (L) x 77.7 (W) x 41.0 (H). See diagram for tolerance details | | | | mm |
| Weight | 360 + 60 per output module | | | | Grams |
| Note 1. | 30°C base & ambient, 100% load, SR332 Issue 2 Method I, Case 3, Ground, Fixed, C | ontrolled | | | |

| 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 | 0 | 0.2 | 1 | Volts | | |
| AC_OR Voltage | High output level | 3.5 | 4.5 | 5.2 | VOILS | | |
| AC_OK Current | | -10 | | 20 | mA | | |
| Power Good Voltage | Low output level. internal $10k\Omega$ pull down. | 0 | 0 | 0 | Volts | | |
| 5 | High output level. PNP open collector. | 8 | 10 | 15 | VOID | | |
| Power Good Current | Open collector output. Current source only. All Slots. | | | 20 | mA | | |
| Global Inhibit Voltage | Low input level | 0 | | 1 | Volts | | |
| Global IIIIIbit Voltage | High input level | 3 | | 15 | VOILS | | |
| Global Inhibit Current | 5k input impedance. | 0.6 | | 3 | mA | | |
| Inhibit Voltage | Low input level. All slots. | 0 | | 1 | Volts | | |
| | High input level. All slots. | 2.5 | | 15 | VOILS | | |
| Inhibit Current | 10k input impedance. All slots. | 0.25 | | 1.5 | mA | | |

| | OUTPUT MODULE SPECIFICATION SUMMARY | | | | | | | | | | | |
|---------------------|---|--------------|-------------|-------------------|------------------|------------------|----------------|--------------|-----------------|---------------------|---------------------|--------------------|
| MODEL | Out | put Volta | age | Output | Rated | Peak | Load | Line | Cross | Ripple & | FPMH ⁽¹⁾ | Feature |
| MODLL | Min. | Nom. | Max. | Current | Power | Power | Reg. | Reg. | Reg. | Noise | 1 1 //// 1 | Set ⁽²⁾ |
| OP1 | 1.5V | 5V | 7.5V | 25A | 125W | 187.5W | ±50mV | ±5mV | ±10mV | 50mV _{PP} | 0.5 | ABCDEFG |
| OP2 | 4.5V | 12V | 15V | 15A | 150W | 225W | ±100mV | ±12mV | ±24mV | 120mV _{PP} | 0.5 | ABCDEFG |
| OP3 | 9V | 24V | 30V | 7.5A | 150W | 225W | ±150mV | ±24mV | ±48mV | 240mV _{PP} | 0.5 | ABCDEFG |
| OP4 | 18V | 48V | 58V | 3.75A | 150W | 217.5W | ±300mV | ±48mV | ±96mV | 480mV _{PP} | 0.5 | ABCDEFG |
| OP5 | 3.3V | 12V | 15V | 5A | 2x 75W | 2x 75W | ±50mV | ±12mV | ±24mV | 240mV _{PP} | 0.75 | AFG |
| OP8 | 23.2V | 24V | 24.7V | 3.125A | 2x 75W | 2x 75W | ±100mV | ±24mV | ±48mV | 480mV _{PP} | 0.75 | AFG |
| OPA2 ⁽³⁾ | 4.5V | 12V | 15V | 25A | 300W | 375W | ±100mV | ±12mV | ±24mV | 120mV _{PP} | 0.5 | ABCDEFGH |
| OPA3(3) | 9V | 24V | 30V | 15A | 300W | 450W | ±150mV | ±24mV | ±48mV | 240mV _{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, l | B = Externa | al Voltage contro | ol, C = External | constant curre | ent control, D | = Current ou | itput signal, E | = Current share, | F = Over Voltag | e protection, |
| | G = Over temperature protection, H = Dual Slot module | | | | | | | | | | | |

Note 3. Can only be used with NEVO+600 chassis with date codes from 2048 onwards. eg. 2048C080000 can use A2 or A3 module, 2047C089999 cannot use A2 or A3 module.

| SAFETY SPECIFICATIONS | | | | | | |
|---|---|----------------|-----------------|--|--|--|
| Parameter | Details | Max | Units | | | |
| | Input to Output (2 MOPP). Do not perform test on assembled unit ⁽¹⁾ | 4000 | V _{AC} | | | |
| Isolation Voltages | Input to Chassis (1 MOPP) | 1500 | V _{AC} | | | |
| | Global signals (J2) to Output/Chassis | 250 | V _{DC} | | | |
| | Output to Output/Chassis (Standard modules) | 250 | V _{DC} | | | |
| Earth Leakage Current | Normal condition, 264Vac, 63Hz, 25°C | 1500 | uA | | | |
| Touch Leakage Current | Standard modules NC/SFC | 20/200 | uA | | | |
| Patient Leakage Current | Standard modules 264Vac, 63Hz, 25°C NC/SFC ⁽²⁾ | | uA | | | |
| Note 1. Testing an assembled unit Note 2. Not Applicable | to $4000V_{AC}$ may cause damage. Please refer to application note (APN-002) on Vox Power website or contact Vo | x Power repres | sentative. | | | |

| INSTALLATION SPECIFICATIONS | | | | | | | | |
|-----------------------------|------------------------|----------------------------|--------------------------|--|--|--|--|--|
| Parameter | Details | Parameter | Details | | | | | |
| Equipment class | I | 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 | Industrial Equipment | | | | | |

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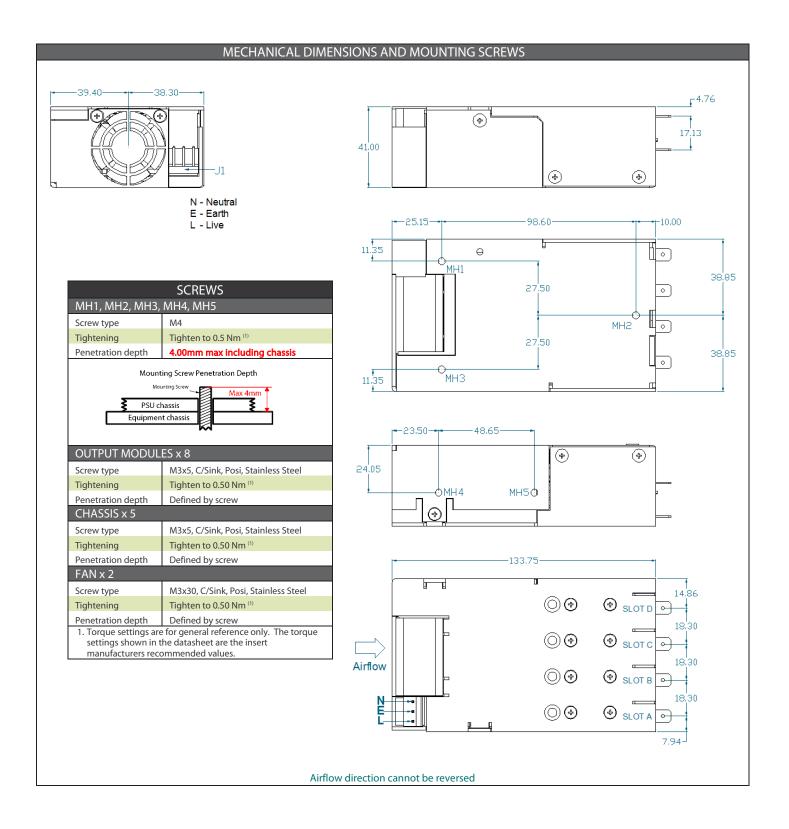


| | | ENVIRONMEN ⁻ | TAL SP <u>ECIFI</u> | CATIO <u>NS</u> | | | | |
|--|---|---|---|--|--------------------------------|--|--|------------------------------|
| Parameter | Details | | | Non-Op | perational | Oper | ational | Units |
| alameter | Details | | | Min | Max | Min | Max | Units |
| Air Temperature | Operational limits subject to | appropriate de-ratings | | -40 | +85 | -20 | 70 | °C |
| Humidity Altitude | Relative, non-condensing | | | -200 | 95 5000 | 5 -200 | 95 5000 ⁽¹⁾ | % m |
| Air Pressure | | | | 52 | 106 | 52 | 106 | kPa |
| Noise Level | Variable. Measured 1m from | fan intake. | | - | - | 36 | 62 | dBA |
| Shock | 3000 bumps at 10G (16ms) h | | | | | | | |
| /ibration | | 20G for 15min in 3 axes random v | | ant to pap a rati wa | , konspin within | consification | | |
| Notes: 1. A | Additional power derating may | be necessary at high altitudes to | | | | specification | 1. | _ |
| | | ELECTROMAGNETIC | | | | | | |
| Phenomenon | | Basic EMC Standa | ard | | t Details | | | |
| Radiated emissions, Conducted emissior | | EN55011/22, FCC EN55011/22, FCC part | 15 CICDD 22/11 | | s B compliant s B compliant | | | |
| larmonic Distortion | | IEC61000-3-2 | 15, CI511(22/11 | | pliant | | | |
| licker & Fluctuation | ו | IEC61000-3-3 | | Com | pliant | | | |
| | | ELECTROMAGNETIC | COMPLIANC | CE – IMMUN | ITY | | | |
| henomenon | | Basic EMC Standa | ard Te | est Details | | | | |
| lectrostatic dischar | rge | IEC61000-4-2 | | est level 4: 15kV a | ir, 8kV contact | | | |
| adiated RF EM field | | IEC61000-4-3 | | est Level 3: (10V/n | | Hz) sine wave | e AM 80% 1kHz | |
| , | n RF wireless communications | IEC61000-4-3 | Te | est levels as per IE | C60601-1-2:20 | 14 Table 9 | | |
| equipment lectrical Fast Transi | ients/hursts | IEC61000-4-4 | | est Level 3: (2kV P | | | $100kH_{7}(ad4)$ | |
| liectrical Fast Transi Jurges | icito/ buists | IEC61000-4-4 | | est Level 3: (2kV P est Level 3: 1kV L- | | 2K112(803) & | JUNIZ(EU4) | |
| 5 | inces induced by RF fields | IEC61000-4-6 | | est Level 3: 10V, 0 | | ne wave AM | 80% 1kHz | |
| ower Frequency M | | IEC61000-4-8 | Te | est level 4: 30A/m | 50Hz | | | |
| oltage Dips & Sag I | Immunity | IEC61000-4-11& SEMI- | -E47-0706 2 | % 10ms, 0% 20ms | | | | |
| oltage interruption | | IEC61000-4-11 | /0 | 0% 0.5s, 40% 0.2s % 250/300 cycle a | | | |) |
| | | performance or loss of function. | 07 | ,0 200, 500 Cycle a | | 1 2.2014 (CI | | |
| Cri Cri | iterion B = Temporary degrada iterion C = Temporary loss of fu | tion of performance or loss of fun inction is allowed but requires of 240V). Line deratings applied w | perator intervent | ion to recover. | nction is self-rea | overable. | | |
| | | AGENC | Y APPROVAL | LS | | | | |
| Standard | | Details | | | | | File | |
| EC 60950-1:2005+A | MD1:2009+AMD2:2013 | 2nd Edition. Information Techn | | | | | | |
| JL 60950-1:2007 | (0050 / 0 ⁻ | 2nd Edition. Information Techn | nology Equipmen | t - Safety - Part 1: | General Requir | ements | UL: E316 | 486 |
| CAN/CSA - C22.2 No | o. 60950-1-07 1:2011+AMD2:2014 | 2nd Edition. Information Techn | nology Equipmen | t - Safety - Part 1: | General Requir | ements | | |
| | 1.2VI ITAWD2.2014 | 2nd Edition. Audio/video, infor | mation and comr | munication techn | ology equipme | ent - Part 1: | | |
| EC 62368-1:2014 | | Safety requirements | | | 37 1 1 | | | |
| JL 62368-1:2014 | | 2nd Edition. Audio/video, infor | mation and comr | munication techn | ology equipme | ent - Part 1: | UL: E316 | 486 |
| | | Safety requirements | mation and com | munication techn | ology equipme | ent - Part 1 | | |
| | | CAN/CSA - C22.2 No. 62368-1-14 2nd Edition. Audio/video, info | | | | | | |
| CAN/CSA - C22.2 No | 0. 62368-1-14 | 2nd Edition. Audio/video, infor Safety requirements | | | | | | |
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| E MARK B certificate and re | port available on request | Safety requirements LVD 2014/35/EU, EMC 2014/30 | | | | | | |
| E MARK B certificate and re Typic | | Safety requirements LVD 2014/35/EU, EMC 2014/30 | /EU | | al Load E | fficiency | (220Vrms) | |
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| CE MARK CB certificate and re Typic 0.90 | port available on request | Safety requirements LVD 2014/35/EU, EMC 2014/30 | /EU | | cal Load Et | fficiency | (220Vrms) | |
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| CE MARK CB certificate and re Typic 0.90 0.88 0.86 0.84 0.82 0.82 0.82 0.82 0.80 0.78 0.00 0.78 0.00 0.78 0.00 0.78 0.00 0.78 0.00 0.78 0.00 0.78 0.00 0.70 0.90 0.80 0.82 0.78 0.90 0.78 0.90 0.7 | al Line Efficiency (Ma | Safety requirements LVD 2014/35/EU, EMC 2014/30/ Aximum power) P1 OP2 P3 OP4 PA2 OPA3 200 220 240 260 | /EU 0.90 0.84 0.86 0.84 A 0.82 0.82 0.84 0.82 0.84 0.82 0.84 0.82 0.84 0.82 0.82 0.84 0.82 0.84 0.82 0.84 0.82 0.82 0.84 0.82 0.82 0.82 0.82 0.82 0.82 0.84 0.82 0.82 0.82 0.82 0.82 0.82 0.82 0.82 | | 50 200 250 Output Po | 00 00 300 350 40 00 00 00 00 00 00 00 00 00 00 00 00 0 | P1 C P3 C PA2 C D0 450 500 5 ttts) | DP2 DP4 DPA3 |
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| E MARK B certificate and re Typic 0.90 0.88 0.86 0.86 0.82 0.82 0.80 0.78 0.00 0.84 0.82 0.80 0.78 0.00 0.82 0.80 0.80 0.80 0.80 0.82 0.80 0.80 0.80 0.80 0.82 0.80 0.80 0.80 0.80 0.80 0.82 0.80 0.80 0.80 0.80 0.82 0.80 0.90 | al Line Efficiency (Ma | Safety requirements LVD 2014/35/EU, EMC 2014/30/ Aximum power) P1 OP2 P3 OP4 PA2 OPA3 200 220 240 260 | /EU 0.90 0.82 0.86 0.84 A 0.82 0.82 0.72 0.72 0.74 0.74 0.72 0.70 0.68 0.66 0.66 0.66 0.66 0.66 0.66 0.6 | | 50 200 250 Output Po | and a second sec | P1 C P3 C PA2 C D0 450 500 5 ttts) | DP2 DP4 DPA3 50 600 |

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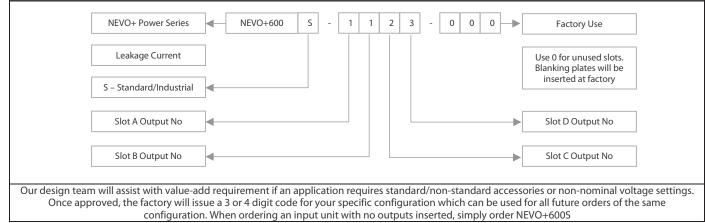
| | | CONNECT | ORS | | |
|-----------------------------------|--|----------------------------|--------------------------------------|------------------------------------|------------|
| Circuit 1 2 3 Circuit | PINOUTS J1 Details Live Earth Neutral J2 Details Power good | 39,40 39,40 | | | |
| 2 3 4 | Inhibit Slot A Power good Slot B | 38.0 | N - Neatral E - Earth L - Live | | |
| 5 6 7 | Power good Slot C Inhibit Slot C Power good Slot D | | | | |
| 8 9 10 11 | Global inhibit AC OK +5V 1A bias supply | | | Positive output Negative output | J4 |
| 12 Circuit | COM J5 ⁽⁴⁾ Details | Circuit # 1 | 5.7-++2.5 | | |
| 2 3 4 5 | +Sense Voltage control Current control / share / out COM | | J5 | | ¥ 1 |
| 6 REF. | +5V 10mA local bias supply | | MANUFACTURER | HOUSING | TERMINAL |
| J1 | MAINS INPUT: 3 Pin, 5.08mm, with F | | MOLEX | 10013036 | 0008701031 |
| J2 | GLOBAL SIGNALS: 12 Pin, 2mm, without | | MOLEX | 511101251 | 0503948051 |
| J3/4 ⁽¹⁾ | OUTPUT POWER TERMINAL: TAB | | VARIOUS | | VARIOUS |
| J5 | OUTPUT SIGNALS: 6 Pin, 1.25mm, wit | n Friction lock, 28-32 AWG | MOLEX | 0510210600 | 0500588000 |
| 2. Direct e | al and wire current rating must exceed n quivalents may be used for any connect es must be rated 105°C min, equivalent : | or parts | current. Eg. Output 1 = 25A*1 | .25 = 31.25Amps | |

3. All cables must be rated 105°C min, equivalent to UL1015

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4. Pinout is for single output types only

PART NUMBERING SYSTEM



DOC-DTS-001-09, NEVO+600S Industrial Datasheet

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