

- Power The World with Highest Efficiency

ENP-7140D

Features

- **400W Output, Active PFC**
- **Protections:** OVP, OPP, SCP, OTP
- **Reliability:** MTBF 150,000 hrs @ 25°C, Full Load
- **High Efficiency:** Meet **80+ Gold** (87% @ 115Vac, Full Load)
- **Safety Approval:** cUL, Nemko, CB
- **Warranty:** 1-year manufacturer



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| Input Specification | | Min. | Normal | Max. | Units |
|----------------------------|--|------|---------|------|-------|
| Parameter | Conditions/Description | | | | |
| Input Voltage Range | Universal Input | 90 | 100-240 | 264 | V(ac) |
| Input Frequency Range | | 47 | 60/50 | 63 | Hz |
| Input Current | Measured at 90 Vac / 264 Vac input, full load output | | 5/2 | | A |
| Inrush Current | Measured at 50A@115Vrms / 100A@ 230Vac (25°C ambient temperature, cold start). | | | | A |
| Efficiency (Meet 80+ Gold) | Measured at 115 Vac @ Full Load | | 87 | | % |

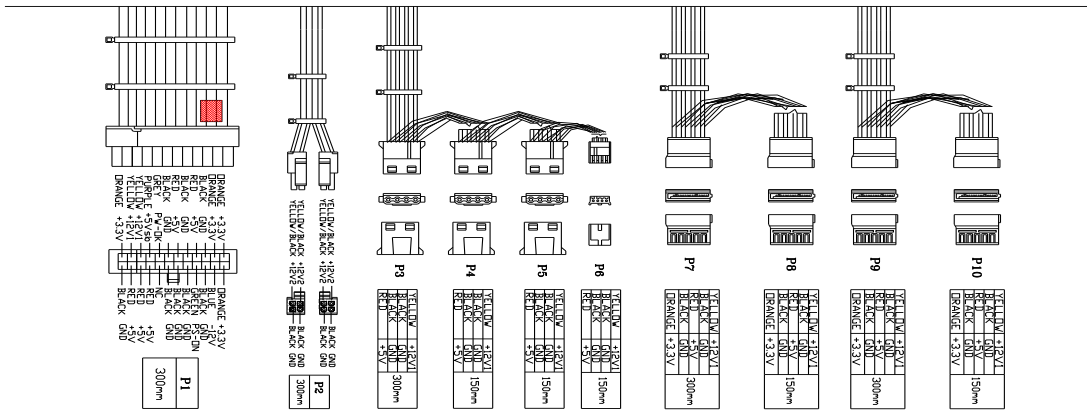
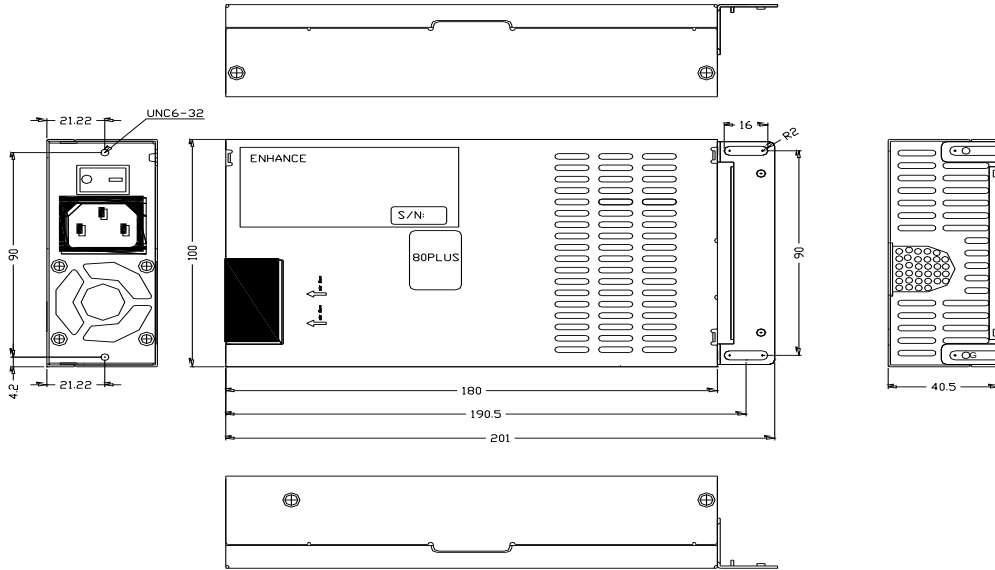
| Output Specification | | Voltage Regulation | | | Ripple Noise | Output Current (Amps) | | | | |
|--|---|--------------------|----------|----------|--------------|-----------------------|--------|------|------|-------|
| Parameter | Conditions/Description | Range | Min. (V) | Max. (V) | (mVp-p) | Min. | Normal | Max. | Peak | Units |
| | | +3.3VDC | +/-5% | 3.14 | 3.47 | 50 | 0. | - | 17 | - |
| +5VDC | +/-5% | 4.75 | 5.25 | 50 | 0 | - | 14 | - | | |
| +12V1DC | +/-5% | 11.4 | 12.6 | 120 | 0 | - | 18 | 20 | | |
| +12V2DC | +/-5% | 11.4 | 12.6 | 120 | 0 | - | 18 | 20 | | |
| -12VDC | +/-10% | -10.8 | -13.2 | 120 | 0 | - | 0.3 | - | | |
| +5VSB | +/-5% | 4.75 | 5.25 | 50 | 0 | - | 2.5 | - | | |
| Voltage Hold-Up Time | Measured at 115Vac/60Hz or 230Vac/50Hz/90% load after power source removed. | | | | 17 | | | | | mSec |
| Output Rise Time | | | | | | | | 10 | | mSec |
| Total combined output of +3.3V and +5V can not exceed 90W . | | | | | | | | | | |
| The maximum peak total DC outputs power shall not exceed 400W . | | | | | | | | | | |

| Environmental Specification | | Min. | Normal | Max. | Units |
|-----------------------------|--|---------------------------------------|--------|------|-----------|
| Parameter | Conditions/Description | | | | |
| MTBF | Calculated via MIL-HDBK-217F @ 25°C ambient temperature , Full load, 110 Vac | 150,000 | | | Hours |
| Operating Temperature | Full load | 0 | | 40 | °C |
| Storage Temperature | | -40 | | 70 | °C |
| Relative Humidity | Non-Condensing | 20 | | 85 | % |
| Dimension | Length x Width x Height | 180 x 100 x 40.5 / 7.09 x 3.94 x 1.59 | | | mm / inch |
| Cooling Fan | 12VDC | 40 | | | mm |
| ROHS | European Directive 2002/95/EC | | | | |

| Reliability Protection | | Recovery Mode |
|------------------------|--|---|
| Parameter | Conditions/Description | |
| Overload | Transit to current limit mode if output over 110% - 160% | Shut Down Output, Auto recover once reset AC power-on by user |
| Over Voltage | | Shut Down Output, Auto recover once reset AC power-on by user |
| Short Circuit | | Shut Down Output, Auto Recover once faults conditions removed |
| Over Temperature | | Shut Down Output, Auto Recover once faults conditions removed |

| Safety & EMC Compliance | | Comment |
|----------------------------|--------------------------------|---------------------------|
| Category | Standard | |
| SAFETY | cUL, Nemko, CB | Approved |
| EMI Conduction & Radiation | | Compliance |
| Harmonic Current Emissions | | EN61000-3-2 Compliance |
| EMS Immunity | Voltage Fluctuation | EN61000-3-3 Compliance |
| | Electrostatic Discharge (ESD) | EN61000-4-2 Compliance |
| | Radiated Susceptibility | EN61000-4-3 Compliance |
| | Fast Transients / Burst - EFT | EN61000-4-4 Compliance |
| | Input Line Surge Immunity | EN61000-4-5 Compliance |
| | Conducted Susceptibility | EN61000-4-6 Compliance |
| | Power Frequency Magnetic Field | EN61000-4-8 Compliance |
| Voltage Dips | EN61000-4-11 Compliance | |

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| | |
|-----------|--------------------------------|
| P1 | Molex 39-01-2245 or equivalent |
| P2 | Molex 39-01-2085 or equivalent |
| P3,P4, P5 | Molex 8981-04P or equivalent |
| P6 | AMP 171822-4 or equivalent |
| P7 – P10 | Molex 88751 or equivalent SATA |

Notes

- Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheet are no longer controlled by Enhance Electronics, refer to <http://www.enhanceusa.com> for the most current product specifications.
- Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured.
- Mechanical drawings (model No. ENP-7140D) is for reference only. The cable wire configuration may vary from other custom designed models as picture showing. Please contact your sales representative for detail.
- Specifications are for reference only. All specifications are measured at an ambient temperature of 25°C, humidity 65%, 230Vac nominal input voltage and at rated output load unless otherwise specified.