

- Power The World with Highest Efficiency

# ENP-7140B

## Features

- **400W Output, Active PFC**
- **Protections:** OVP, OPP, SCP, OTP
- **Reliability:** MTBF 100,000 hrs @ 25°C, Full Load
- **High Efficiency:** Meet **80+ Gold** (87% @ 115Vac, Full Load)
- **Safety Approval:** cUL, Nemko, CB
- **Warranty:** 1-year manufacturer



Server



Industrial Panel PC



Kiosk

### Input Specification

Parameter	Conditions/Description	Min.	Normal	Max.	Units
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

Parameter	Conditions/Description	Voltage Regulation			Ripple Noise	Output Current (Amps)				
		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 <b>90W</b> .										
The maximum peak total DC outputs power shall not exceed <b>400W</b> .										

### Environmental Specification

Parameter	Conditions/Description	Min.	Normal	Max.	Units
MTBF	Calculated via MIL-HDBK-217F @ 25°C ambient temperature , Full load, 110 Vac	100,000			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	150 x 82 x 40.5 / 5.9 x 3.2 x 1.59			mm / inch
Cooling Fan	12VDC	40			mm
ROHS	European Directive 2002/95/EC				

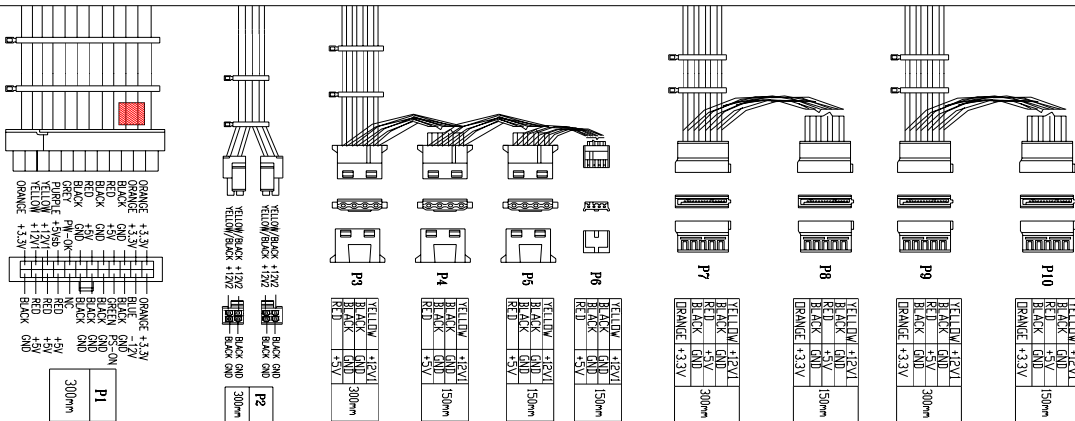
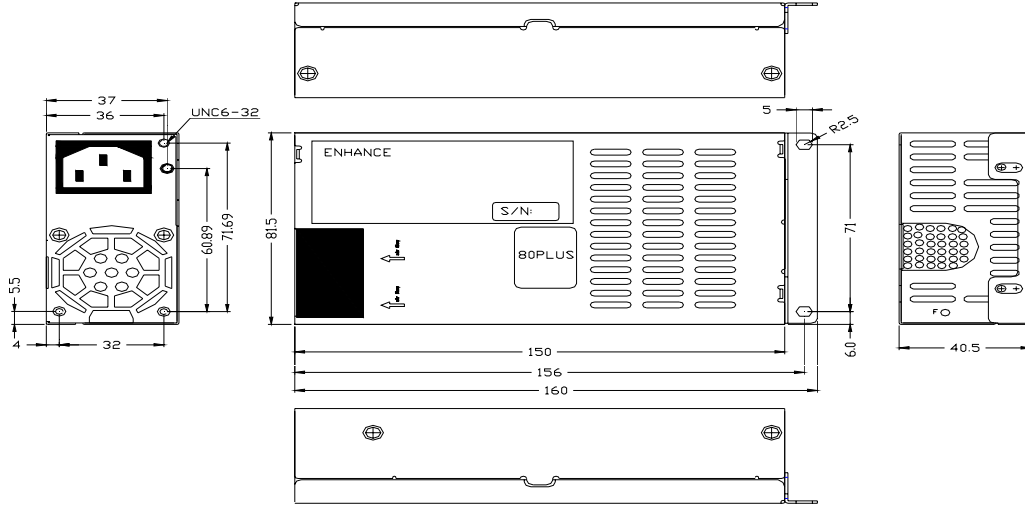
### Reliability Protection

Parameter	Conditions/Description	Recovery Mode
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

Category	Standard	Comment
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 39-01-2240 or equivalent
P7	Molex 39-01-2040 or equivalent
P3,P4, P5	Molex 8981-04P or equivalent
P6	AMP 171822-4 or equivalent
P2	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-7140B) 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.