- Power The World with Highest Efficiency

ENP-7025B

Features

- **250W Output, Active PFC**
- **Protections:** OVP, OPP, SCP, OTP
- **Reliability:** MTBF 100,000 hrs @ 25°C, Full Load
- **High Efficiency (80+ Bronze):** 83.56% @ 115Vac, Full Load
- **Safety Approval:** cUL, Nemko, CB, CCC, BSMI
- **Warranty: 1-year** manufacturer

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		3.5/1.5		A
Inrush Current	Measured at 45A@115Vrms /90A@ 230Vac (25°C ambient temperature, cold start).				A
Efficiency (80+ Bronze)	Measured at 115 Vac @ Full Load		83.56		%

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	0.1	-	13	-	
+5VDC		+/-5%	4.75	5.25	50	0.2	-	14	-	
+12V1DC		+/-5%	11.4	12.6	120	0.6	-	18	20	
+12V2DC		+/-5%	11.4	12.6	120	0.6	-	18	20	
-12VDC		+/-10%	-10.8	-13.2	120	0	-	0.3	-	
+5VSB		+/-5%	4.75	5.25	50	0	-	2	2.5	
Voltage Hold-Up Time	Measured at 115Vac/47Hz or 230Vac/47Hz/100% load after power source removed.					16				mSec
Output Rise Time								10		mSec
Total Combined Output Load on +3.3V and +5V shall not exceed **80W**.										
Total Combined Output of +12V1 & +12V2 can not exceed **240W**.										

Enviromental 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 81.5 x 40.5/5.9 x 3.2 x 1.59			mm / inch
Cooling Fan	12VDC	40 x 40 x 20			mm
ROHS	European Directive 2002/95/EC				

Reliability Protection

Parameter	Conditions/Description	Recovery Mode
Overload	Transit to current limit mode if output over 110% - 150%	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, CCC, BSMI		Approved
EMI Conduction & Radiation	EN55022 Class-B		Compliance
Harmonic Current Emissions		EN61000-3-2	Compliance
EMS Immunity	Voltage Fluctuation	EN61000-3-3	Compliance
	Electrostatic Discharge (ESD)	EN61000-4-2	Compliance
	Radiated Susceptibilty	EN61000-4-3	Compliance
	Fast Transients / Burst - EFT	EN61000-4-4	Compliance
	Input Line Surge Immunity	EN61000-4-5	Compliance
	Conducted Susceptibilty	EN61000-4-6	Compliance
	Power Frequency Magnetic Field	EN61000-4-8	Compliance
	Voltage Dips	EN61000-4-11	Compliance

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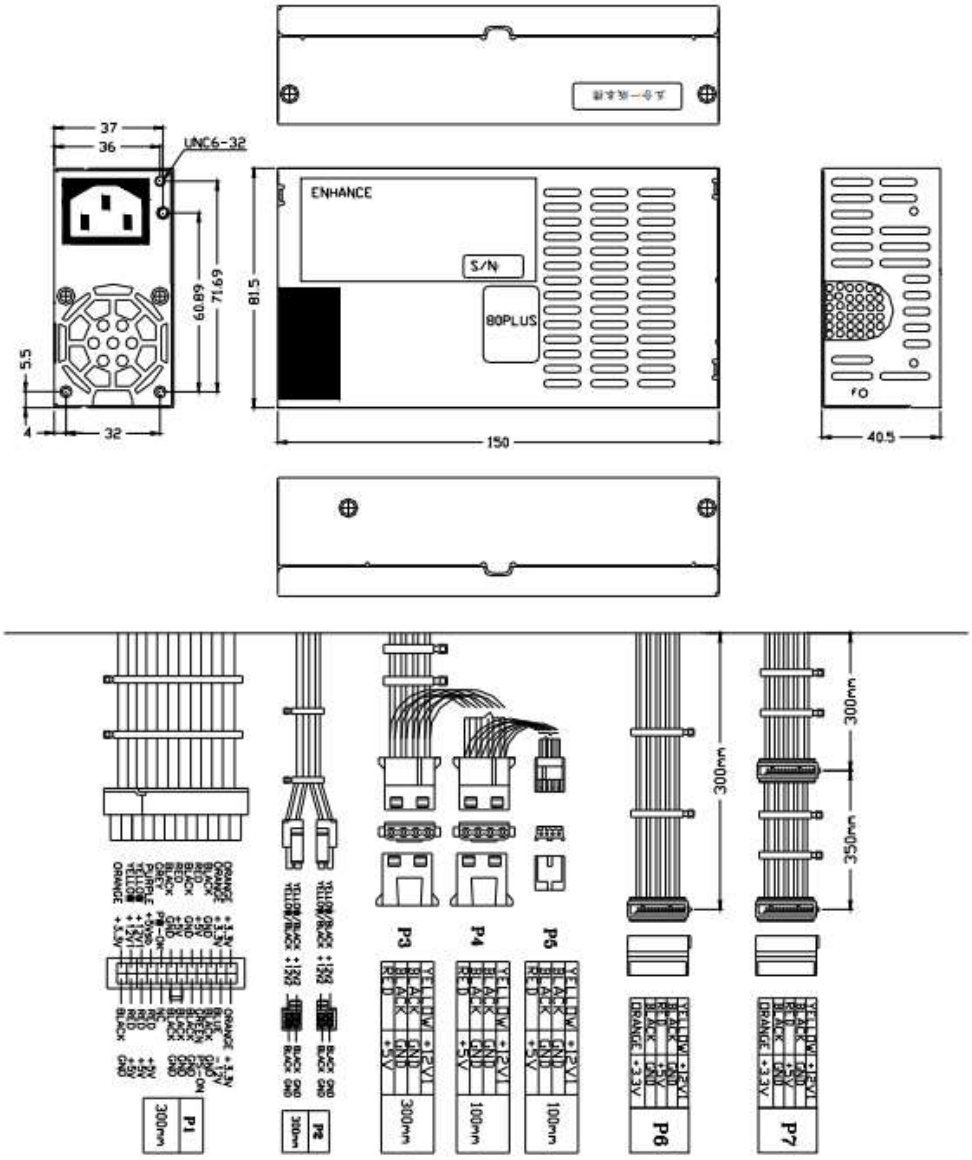

P1	Molex 39-01-2240 or equivalent
P2	Molex 39-01-2040 or equivalent
P3, P4	Molex 8981-04P or equivalent
P5	AMP 171822-4 or equivalent
P6, P7	Molex 88751 or equivalent SATA

Notes

1. 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.
2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured.
3. Mechanical drawings (model No. ENP-7025B) 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.
4. 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.