

- Power The World with Highest Efficiency

ENR-1040

Features

- **400W Output, 1U 1+1 Redundant**
- **Protections:** OVP, OCP, OTP, SCP
- **Reliability:** MTBF > 100,000 hrs @ 25°C, Full Load
- **Efficiency:** Typically 80% @ Normal AC Input, Full Load
- **Safety Approval:** cUL (pending)
- **Warranty:** 3-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		6/3		A
Inrush Current	Measured at 50A, 115Vrms /100A, 230Vac (25°C ambient temperature, cold start).			50	A
Efficiency	Measured at normal AC input, full load		80		%

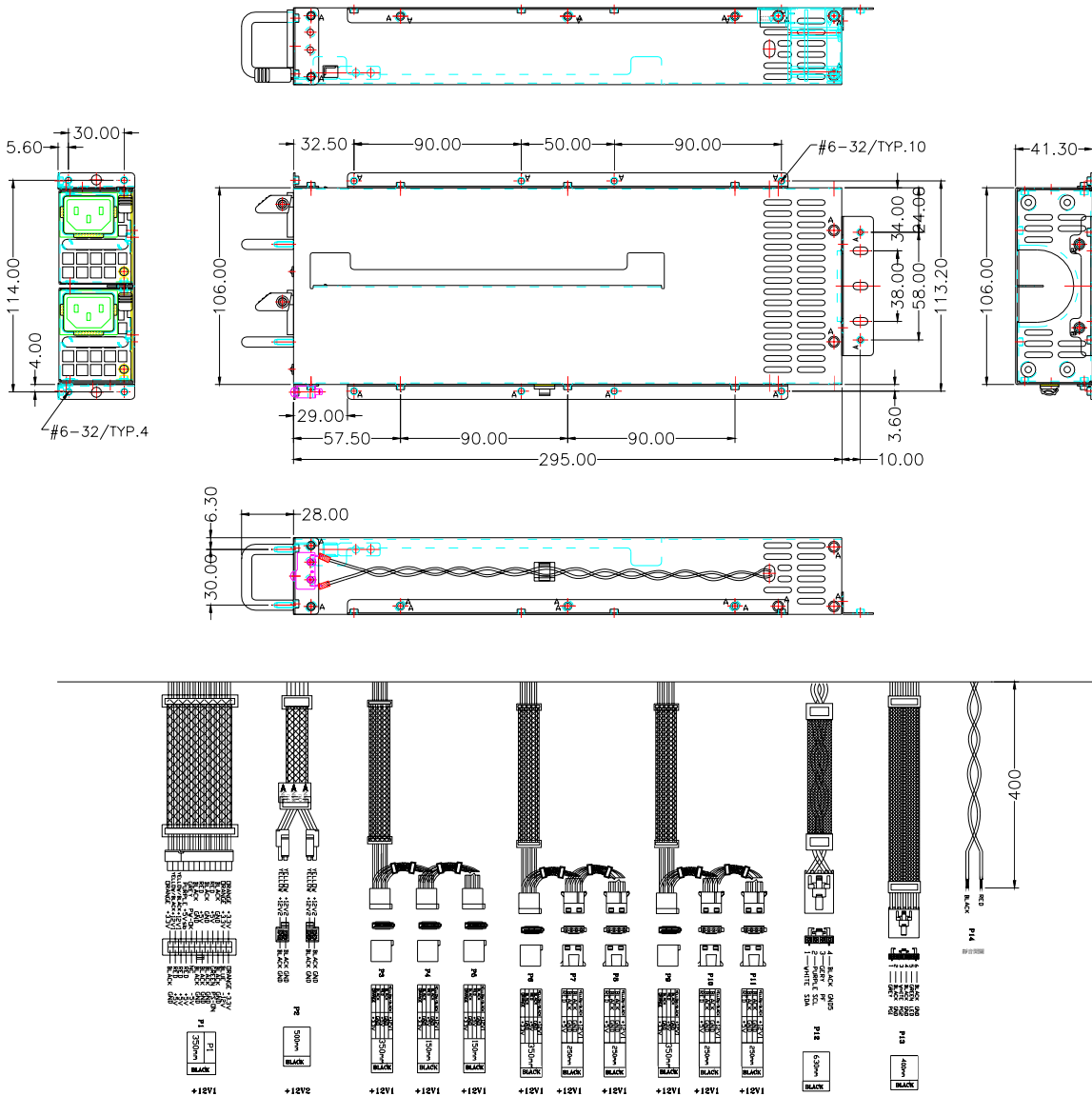
Output Specification										
Parameter	Conditions/Description	Voltage Regulation			Ripple Noise	Output Current (Amps)				
		Range	Min. (V)	Max. (V)	(mVp-p)	Min.	Normal	Max.	Peak	
+3.3V		+/-5%	3.14	3.47	50	0.1	-	17	-	
+5V		+/-5%	4.75	5.25	50	0.2	-	20	-	
+12V1		+/-5%	11.4	12.6	120	1	-	33	-	
+12V2		+/-5%	11.4	12.6	120	1	-	33	-	
-12V		+/-10%	-10.8	-13.2	120	0	-	0.3	-	
+5VSB		+/-5%	4.75	5.25	70	0	-	3	-	
Total continues of all DC outputs power shall not exceed 400W .										
Voltage Hold-Up Time	Measured at 115Vac/60Hz or 230Vac/50Hz/90% load after power source removed.					17				mSec
Turn-on Delay Time	Delay from AC being applied to all output voltages being within regulation.					100		500		mSec

Environmental Specification					
Parameter	Conditions/Description	Min.	Normal	Max.	Units
MTBF	Calculated via MIL-HDBK-217F @ 25°C ambient temperature , Full load, 115 Vac	100,000			Hours
Operating Temperature	Full load	0		50	°C
Storage Temperature		-40		70	°C
Operating Altitude				10,000	ft
Storage Altitude				50,000	ft
Dimension	Length x Width x Height	295 x 106 x 41.5			mm
Cooling Fan	12VDC	40			mm
ROHS	European Directive 2002/95/EC				

Reliability Protection		
Parameter	Conditions/Description	Recovery Mode
Over Voltage		Shut Down Output, Auto recover once reset AC power-on by user
Over Current	Transit to current limit mode if output over 110% - 150%	Shut Down Output, Auto recover once reset AC power-on by user
Over Temperature		Shut Down Output, Auto Recover once faults conditions removed
Short Circuit		Shut Down Output, Auto Recover once faults conditions removed

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

- Power The World with Highest Efficiency



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. ENR-1040) is for reference only. **The cable wire configuration can be fully customize base on customer's request.** 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.