

80 PLUS Verification and Testing Report

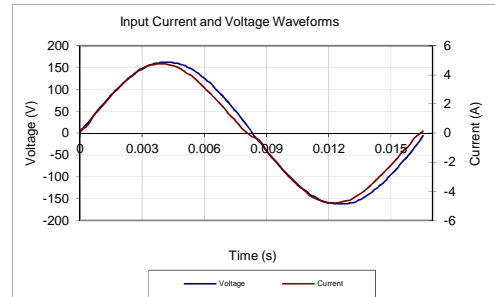
| | |
|---------------------------------------|---------------|
| TYPICAL EFFICIENCY (50% Load): | 85.88% |
| AVERAGE EFFICIENCY : | 84.23% |
| 80 PLUS COMPLIANT: | YES |



| | |
|----------------------|-----------------------|
| Ecos ID # | 4083.3 |
| Manufacturer | DELTA ELECTRONICS INC |
| Model Number | GPS-650JB E |
| Serial Number | N/A |
| Year | 2014 |
| Type | ATX12V,EPS12V |
| Test Date | 9/17/14 |

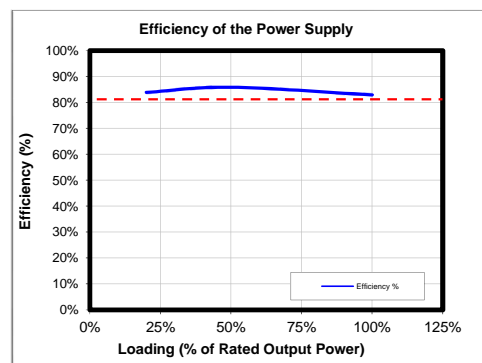
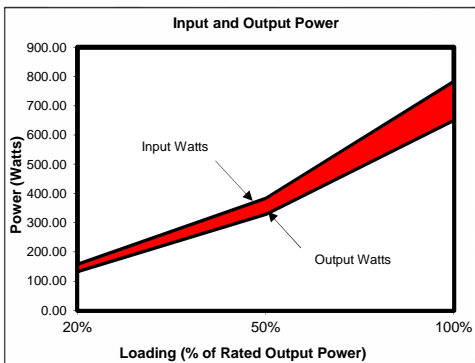
| Rated Specifications | Value | Units |
|---------------------------|------------|--------------|
| Input Voltage | 100-240 | Volts |
| Input Current | 10-5 | Amps |
| Input Frequency | 47-63 | Hz |
| Rated Output Power | 650 | Watts |

Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 5.9%, 50% Load)

| I _{RMS} A | PF | I _{THD} (%) | Load (%) | Input Watts | DC Terminal Voltage (V)/ DC Load Current (A) | | | | | Output Watts | Efficiency % |
|-----------------------|------|----------------------|-------------|----------------|--|----------|----------|---------|---------|-----------------|-----------------|
| | | | | | 12V (cumulative of 12V1, 12V2, etc.) | -12V | 3.3V | 5V | 5Vsb | | |
| 0.73 | 0.99 | 10.73% | 10% | 82.50 | 12.2/4.5 | 11.9/0 | 3.4/1.2 | 5.1/1.2 | 5.1/0.3 | 66.25 | 80.30% |
| 1.39 | 0.99 | 11.92% | 20% | 157.80 | 12.2/8.9 | 11.9/0.1 | 3.3/2.4 | 5.1/2.4 | 5.1/0.5 | 132.40 | 83.90% |
| 3.34 | 1.00 | 5.90% | 50% | 382.90 | 12.1/22.3 | 11.9/0.2 | 3.3/6 | 5/5.9 | 5/1.2 | 328.82 | 85.88% |
| 6.82 | 1.00 | 4.82% | 100% | 783.20 | 12.1/44.4 | 12/0.4 | 3.3/11.9 | 5/11.8 | 4.9/2.5 | 649.45 | 82.92% |



These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. <http://www.80plus.org/>

