



全漢企業股份有限公司

驗證測試報告

料號 : 9PA300D200,(PILOT
 RUN,,G.P,FSP300-60HHN(85),,PC,ATX(2.3)(85PLUS),,,,,SLEEVE,W/NK,W/IO,WO/O
 ,WO/SS,FSP,W/PFC(A),2L1S,,,INTEL,230V ONLY,,,,RD8,)

版次 : 1

文件編號 : QTR09045220

測試步驟 : B-Test

附件版本 : 1

研發部門 : RD8

作者 : bobo/楊淑燕

Model No/Type : FSP300-60HHN(85)

機密 : N

發行日期 : 2009/7/15-11:42:30

備註 :



| 單位 | 姓名 | 單位 | 姓名 | 單位 | 姓名 |
|----|-----------|----|----|----|----|
| 主管 | Jason 魏敬堦 | | | | |
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FSP QUALIFICATION TEST REPORT

Customer: **RD-8**Model name: **FSP300-60HHN(85)**Tested by: **Brian Chien**Report Rev: **01**Stage: **B-TEST**

Checked by:

Spec. Rev: **1.00**Date: **2009/7/13**

Approved by:

Sample Rev: **N/A**

| Item | Sub-Item | Results | Page | Comments |
|-------------------------|---------------------------|---------|-------|-----------------|
| Input Characteristics | Efficiency | Pass | 1 | |
| | Power factor | Pass | 1 | |
| | Input current | Pass | 1 | |
| | Inrush current | Pass | 2 | |
| | Turn on time | Ref | 15 | |
| | Hold up time | Pass | 16 | |
| Output Characteristics | Output Voltage Regulation | Pass | 3-4 | |
| | Ripple & Noise | Pass | 5-6 | |
| | Dynamic load | Pass | 7-8 | |
| | Rise time | Pass | 19 | |
| | P.G.Delay timing | Pass | 17 | |
| | P.G fail timing | Pass | 18 | |
| | Overshoot | Pass | 9-10 | |
| Protections | Short circuit | Pass | 11-12 | |
| | Over current | Pass | 13 | |
| | Over voltage | Pass | 14 | |
| Safety | Leakage current | Pass | 49 | |
| | Hi-pot | Pass | 50 | |
| | Insulation resistance | Pass | 51 | |
| | Ground Bond | Pass | 52 | |
| Environment/Reliability | Burn in | Pass | 53 | |
| | ON/OFF cycling | Pass | 54 | |
| | Temperature & Humidity | Pass | 55-56 | |
| | Thermal | Pass | 41-48 | |
| | Cold start | Pass | 57 | |
| | Acoustic Emissions | Pass | 68-69 | |
| | Voltage Stress | Pass | 23-40 | |
| | Vibration | Pass | 70-73 | |
| E.M.C. | EMI conduction | Pass | 65-67 | EN55022 class B |
| | Current Harmonic | Pass | 20-22 | EN61000-3-2 |
| | Lightning surge | Pass | 58-60 | EN61000-4-5 |
| | ESD | Pass | 61-62 | EN61000-4-2 |
| | EFT | Pass | 63-64 | EN61000-4-4 |
| | AC Voltage Dips | Pass | 74 | EN61000-4-11 |

表單編號:A000W-00502



Efficiency

1. Specification:

| AC Input | Input line current | Power Factor @ full load | Power Factor @ 75W | Minimum Efficiency | | |
|----------|--------------------|--------------------------|--------------------|--------------------|--------------------|------------------|
| | | | | Full load (100%) | Typical load (50%) | Light load (20%) |
| 230V | <2.0Amps-rms | >0.90 | > 0.75 | 82% | 85% | 82% |

2. Test condition:

- ✧ AC Input: 180Vac/230Vac/265Vac
- ✧ Frequency: 47Hz/50Hz/63Hz
- ✧ Ambient Temperature: 25°C

| Loading | +5V | +12V1 | +12V2 | -12V | +3.3V | +5Vsb |
|---------|-------|-------|-------|-------|-------|-------|
| Full | 9.04A | 8.75A | 8.75A | 0.36A | 9.5A | 1.82A |
| Typical | 4.52A | 4.37A | 4.37A | 0.18A | 4.75A | 0.91A |
| Light | 1.81A | 1.75A | 1.75A | 0.07A | 1.9A | 0.36A |
| 75W | 3A | 2A | 1A | 0A | 2.9A | 0.1A |

3. Test record

| Vin(V) | Fin(Hz) | Load | Vinrms(V) | Iinrms(A) | Pin(W) | Pout(W) | PF | EFF(%) | Result |
|--------|---------|---------|-----------|-----------|---------|---------|-------|--------|--------|
| 180 | 47 | Full | 179.810 | 2.057 | 367.395 | 299.875 | 0.991 | 81.622 | Ref |
| | | Typical | 180.200 | 0.998 | 177.909 | 151.159 | 0.994 | 84.964 | Ref |
| | | Light | 180.380 | 0.427 | 74.279 | 61.207 | 0.964 | 82.401 | Ref |
| 230 | 50 | Full | 230.060 | 1.577 | 361.903 | 299.858 | 0.990 | 82.856 | Pass |
| | | Typical | 230.350 | 0.783 | 176.328 | 151.136 | 0.980 | 85.713 | Pass |
| | | Light | 230.500 | 0.344 | 73.632 | 61.206 | 0.926 | 83.124 | Pass |
| | | 75W | 230.630 | 0.354 | 75.765 | 62.307 | 0.928 | 82.237 | Pass |
| 265 | 63 | Full | 265.250 | 1.362 | 359.782 | 299.893 | 0.985 | 83.354 | Ref |
| | | Typical | 265.480 | 0.691 | 175.458 | 151.131 | 0.958 | 86.135 | Ref |
| | | Light | 265.600 | 0.321 | 73.298 | 61.195 | 0.857 | 83.487 | Ref |