


| REV. | Description                                                                                                                                                            | Date     |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 00   | SPEC ISSUE (NEW MODEL)<br>ADP-400GR AAA                                                                                                                                | 05/27'22 |
| 01   | 102A-226091<br>1. 修改 6.6 Acoustic noise test 測試圖片                                                                                                                      | 06/20'22 |
| 02   | 102A-229063<br>1. Add 6.21 9V hold-up time 測試項目，ATS 100%測試，但是不做 CPK 判定，Bench function team 會做波形抓取並判定。                                                                  | 09/12'22 |
| 03   | 102A-229084<br>Add Model：ADP-400GR AAB, ADP-400GR AAC                                                                                                                  | 09/19'22 |
| 04   | 102A-22C035<br>Add Model：ADP-400GR AAD                                                                                                                                 | 12/12'22 |
| 05   | 102A-22C106<br>Add Model：ADP-400GR AA                                                                                                                                  | 01/18'23 |
| 06   | 102A-232105<br>Add Model：ADP-400GR AAE, ADP-400GR AAF                                                                                                                  | 02/15'23 |
| 07   | 102A-235049<br>Add Model：ADP-400GR AB, ADP-400GR ABA, ADP-400GR ABB, ADP-400GR ABC                                                                                     | 05/05'23 |
| 08   | 102A-235308<br>1. CR-BOX 測試時，測試電壓設定為 6KV，此測試電壓測試結果與 SIE 系統搭配測試結果最相近，故以此電壓做測試(no function error, no latch off, no damage.)。8KV 判定標準為 (can damage, no quality accident)。 | 05/31'23 |
| 09   | 102A-238047<br>Add Model：ADP-400GR AB88                                                                                                                                | 08/04'23 |
| 10   | 102A-244263<br>Add Model：ADP-400GR AC                                                                                                                                  | 04/23'24 |
|      |                                                                                                                                                                        |          |
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|                                                                                                                                                                                                                         |       |             |             |                                           |      |
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|  <b>台達電子工業股份有限公司</b><br><b>DELTA ELECTRONICS, INC.</b>                                                                               |       |             |             | DESCRIPTION :<br>測試規格(Test Specification) |      |
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| Date                                                                                                                                                                                                                    | Drawn | Design (EE) | Design (ME) | DOCUMENT NAME. :                          | REV. |
| 04/23'24                                                                                                                                                                                                                | 李亭芳   | 楊曜廷         | 李昱緯         | TS-400GR A SERIES                         | 10   |

## MODEL LIST

|               |                |               |               |               |
|---------------|----------------|---------------|---------------|---------------|
| ADP-400GR AA  | ADP-400GR AAA  | ADP-400GR AAB | ADP-400GR AAC | ADP-400GR AAD |
| ADP-400GR AAE | ADP-400GR AAF  | ADP-400GR AB  | ADP-400GR ABA | ADP-400GR ABB |
| ADP-400GR ABC | ADP-400GR AB88 | ADP-400GR AC  |               |               |

測試注意事項內容，未經工程師許可，不可任意變更。

**Test Notice contents shall not be changed or revised without engineer permission.**

- 1** 此測試規格用於主線測試,所有項目均需被測試,因設備或線速限制無法全數測試時,需測試 **worst case**, **QC** 需按抽樣標準測試所有 **Item** 不可只測試主線測試項目。

**The production line shall perform all or worst test items/conditions, and**


**QC shall follow the sampling plan to perform all items/conditions not just the worst condition as production did.**

- 2** 測試注意事項：(以下為範例寫法請依據產品特性自行修正)

- 功能測試時, 12V 電子負載需設定 Von 點為 0V.
- 所有 ATS 測試時, 須偵測 CONNECTOR 端之電壓。
- 在測試時, 治具上各組輸出須有加濾波電容 22uF (Ceramic capacitor)
- ATS 測試時須外加風扇, 否則將造成 Power supply 過熱。
- Case 未組裝前的各項測試,於測試完成後須對 BULK CAP 放電。
- 12V 的 output peak load & 效率測試電壓量測需以測試板上為主。
- Brown out: 判定標準為 no damage
- Efficiency  
12V 冷機規格為 NA  
熱機(至少 5min)規格為 NA

- 3** 手調測試站：(以下為範例寫法請依據產品特性自行修正)

- Full Load Test:** 檢查滿載輸出是否符合規格
- Min. Load Test:** 檢查輕載輸出是否符合規格

|                                                                                                                                                                                                                          |              |                    |                    |                                                             |             |
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| <b>Date</b>                                                                                                                                                                                                              | <b>Drawn</b> | <b>Design (EE)</b> | <b>Design (ME)</b> | <b>DOCUMENT NAME. :</b>                                     | <b>REV.</b> |
| 04/23'24                                                                                                                                                                                                                 | 李亭芳          | 楊曜廷                | 李昱緯                | <b>TS-400GR A SERIES</b>                                    | <b>10</b>   |

| Output | Output Voltage |              |
|--------|----------------|--------------|
|        | Rated          | Tolerance    |
| 12V    | 12V            | 11.52V~12.6V |

**c. OVP Test :**

12V OVP :短路 IC53

**d. AC On/Off:**

Power supply 連續開關機 On= 2 秒, Off= 2 秒, 5 次後, 必須無損壞情形。

**e. OTP Test:**

NTC41 OTP : Short NTC41.

NTC151 OTP : Short NTC151.

Input : 85Vac /276Vac ,

Output : 12V/31A

#### 4 Function test (ATS) procedure :

**Input Specification Table:**

| INPUT VOLTAGE | MINIMUM | MAXIMUM | NOMINAL(RATED) |
|---------------|---------|---------|----------------|
| LOW RANGE     | 85 VAC  | 132 VAC | 100 VAC        |
| HIGH RANGE    | 180V AC | 276 AC  | 240V AC        |

**Output Specification Table:**

| Output | Output Voltage |              |
|--------|----------------|--------------|
|        | Rated          | Tolerance    |
| 12V    | 12V            | 11.52V~12.6V |



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#### 4.1 Input characteristics

|   | Item                  | Condition                                                       |                                                               | Specification        |
|---|-----------------------|-----------------------------------------------------------------|---------------------------------------------------------------|----------------------|
| 1 | Rated input voltage   | -                                                               |                                                               | 100 ~ 240 Vac        |
| 2 | Input voltage range   | -                                                               |                                                               | 85 ~ 276Vac          |
| 3 | Input current         | 12V/31A @ 100Vac                                                |                                                               | Less than 4.5A       |
| 4 | Rated input frequency | -                                                               |                                                               | 50Hz / 60Hz          |
| 5 | Input frequency       | -                                                               |                                                               | 47 ~ 63 Hz           |
| 6 | Input inrush current  | 85 ~ 276 Vac<br>Rated load.<br>(Test with<br>3KV AC<br>Source). | Ta= 25°C<br>Cold start                                        | Less than 140A       |
|   |                       |                                                                 | Ta= 40°C<br>Repeat AC ON<=>OFF<br>(5VSB: 120mA load, 12V OFF) | Less than 180A/2msec |

#### 4.2 Output characteristics

**Output System:**

**Output Characteristics:**

Below output capacitance (smallest capacity) should be satisfied

12V : 22uF (Ceramic capacitor)

| Output | Output Voltage | Output Current           |       |      | Ripple & Noise (at rated load) |
|--------|----------------|--------------------------|-------|------|--------------------------------|
|        | Tolerance      | Peak                     | Rated | Min. | Ta= -5~40°C                    |
| 12V    | +5% -4%        | 50.25A/30msec            | 31A   | 0A   | 150mVp-p,max                   |
| 12V    | +10%~-10%      | Rated load to Peak load. |       |      |                                |

# full load(300ms)~peak load(30ms)。

| Output | OCP          | OVP       |
|--------|--------------|-----------|
| 12V    | 50.25A~62.8A | 15.6V,max |

**Other characteristics:**



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|   | Item                     | Condition and Specification                                                                               |                                                                                                                                                                      |                                                        |
|---|--------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1 | No load operating        | Input range: 85~ 276 Vac<br>No function error, no damage, and output voltage should be within regulation. |                                                                                                                                                                      |                                                        |
| 2 | Over / Undershoot        | Input range: 85 ~ 276 Vac<br>Output voltage should be within +10%~-10% of rated output voltage.           |                                                                                                                                                                      |                                                        |
| 3 | Protective function      | OCP                                                                                                       | The 12V has been detected abnormal (12V OC/OV/OT/UV), 12V output should be shut down immediately.                                                                    |                                                        |
|   |                          | OVP                                                                                                       |                                                                                                                                                                      |                                                        |
|   |                          | OTP                                                                                                       |                                                                                                                                                                      |                                                        |
|   |                          | Protection functional operation (Signal and power output)                                                 |                                                                                                                                                                      |                                                        |
| 4 | Recovery from protection | Remove latch function after the AC OFF and within 3 minutes.                                              |                                                                                                                                                                      |                                                        |
| 5 | Transient response       | 12V                                                                                                       | Input range: 85 ~ 276 Vac<br>[ 12V load change ]<br>Change range : 100%~40%, 90%~30%, 80%~20%, 70%~10%<br>Change frequency : 10Hz & 20kHz.<br>Change rate : 1.0A/use | Output voltage should be regulated within 12V +5% -4%. |

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### 4.3 Common specifications

| Item |                        |                         | Condition                                                       | Specification                                                                                                           |
|------|------------------------|-------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1    | Switching frequency    |                         | 100Vac input.<br>Rated load.                                    | -                                                                                                                       |
| 2    | Power factor           |                         | -                                                               | IEC61000-3-2.                                                                                                           |
| 3    | Life                   |                         | Rated input voltage.<br>Ambient temperature, constant humidity. | 70,000Hr or more with system.<br>=> 20,000Hr, 12V/rated load<br>(FAN cooling).<br>=> 50,000Hr, 12V/3A (air convection). |
| 4.   | Efficiency             | Light load<br>w/o Fan   | Rated input voltage, load (0A).                                 | <0.17W                                                                                                                  |
|      |                        |                         | Rated input voltage, load (0.01A).                              | 37.8                                                                                                                    |
|      |                        |                         | Rated input voltage, load (0.025A).                             | 61.5                                                                                                                    |
|      |                        |                         | Rated input voltage, load (0.05A).                              | 66.4                                                                                                                    |
|      |                        |                         | Rated input voltage, load (0.1A).                               | 72.4                                                                                                                    |
|      |                        |                         | Rated input voltage, load (0.2A).                               | 76.7                                                                                                                    |
|      |                        |                         | Rated input voltage, load (0.3A).                               | 82.0                                                                                                                    |
|      |                        |                         | Rated input voltage, load (0.4A).                               | 83.0                                                                                                                    |
|      |                        |                         | Rated input voltage, load (0.6A).                               | 84.0                                                                                                                    |
|      |                        |                         | Rated input voltage, load (1A).                                 | 85.0                                                                                                                    |
|      |                        | Normal load<br>With Fan | Rated input voltage, load (10A).                                | 89.0                                                                                                                    |
|      |                        |                         | Rated input voltage, load (20A).                                | 88.0                                                                                                                    |
|      |                        |                         | Rated input voltage, load (31A).                                | 85.5                                                                                                                    |
| 5    | Parts temperature      |                         | Rated input voltage.<br>System ass'y.<br>Ta=40°C                | There is enough de-rating of<br>temperature for all components.                                                         |
| 6    | t_dur1                 | t_dur1                  | Rated input voltage<br>12V: 20A                                 | 50Hz 1.5 cycle(=30ms).<br>Output voltage shall be satisfy electric<br>characteristic.                                   |
| 7    | Leakage current        |                         | Rated input voltage.                                            | 100uArms or less.                                                                                                       |
| 8    | Input discharge time   |                         | Input 121V or less, from AC power OFF to 37%<br>rated.          | 1 sec or less.                                                                                                          |
|      |                        |                         | Input 122V or more, from AC power OFF to 45V.                   | 1 sec or less.                                                                                                          |
| 9    | Overvoltage apply test |                         | 400Vac input / 2sec.                                            | No safety hazard.                                                                                                       |

Note 1: After completes required DVT test matrix, identifies and selects the worst case condition for the Production MTR. It is not required that all test conditions be tested. Example: If worst case condition for Output Ripple is minimum input voltage and maximum dc load, then that is the test condition to be used.



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#### 4.4 Power ON/OFF (Sequential control & Timing)

| Item      | Condition                            | Specification                                                       |
|-----------|--------------------------------------|---------------------------------------------------------------------|
| t_on      | AC ON to 12V turn on time            | output voltage can be regulated to 12V+5%, -4% within 2S.           |
| t_off     | 12V output voltage from 100% to 10%. | 12V output voltage from 100% to 10%.                                |
| Tur t_r   | 0V to 12V rise time                  | 12V output voltage from 5% to 95% within 2~20msec.<br>Load 0A : 不判定 |
| t_9V_keep | When AC off , 9V keep time.          | 12V/1A , 9V keep time 1s (min)                                      |

#### 5. Safety

##### Hi-POT test :

|   |                       |                                                                                                                                                                                            |                                                                                                                                                       |
|---|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | HI-POT                | Input between primary and secondary.<br>Primary 是 L,N,<br>Second 是 12V & GND<br>PG1 & PG2 需連接在一起.<br>QA (sampling) : 3.0kVac 50/60Hz 60sec<br>Production line (all): 3.1kVac 50/60Hz 3sec. | IEC60950-1 item 5.2<br><br>Sense current: 10mA or less.<br>Arcing current :<br>EVT1: 5mA,<br>EVT2,3/DVT: 8mA, PVT/MP:10mA<br>Without damage to parts. |
| 2 | Insulation resistance | 500 Vdc input between primary and secondary.                                                                                                                                               | 10 Mohm or more.                                                                                                                                      |
| 3 | ESD                   | ESD 僅針對二次側 GND 測試 for 客戶要求                                                                                                                                                                 |                                                                                                                                                       |
| 4 | RFI                   | AC 線需垂直於地面                                                                                                                                                                                 |                                                                                                                                                       |

#### 6. Other

6.1 12V 測試 dynamic load 的時候需按照客戶規格切換做測試，不做 0%到 100% load 切換.

6.2 Common mode noise : 客戶暫無規格不須測試.

6.3 Loop gain (12V)

擾動電壓 : 產品不當機即可.



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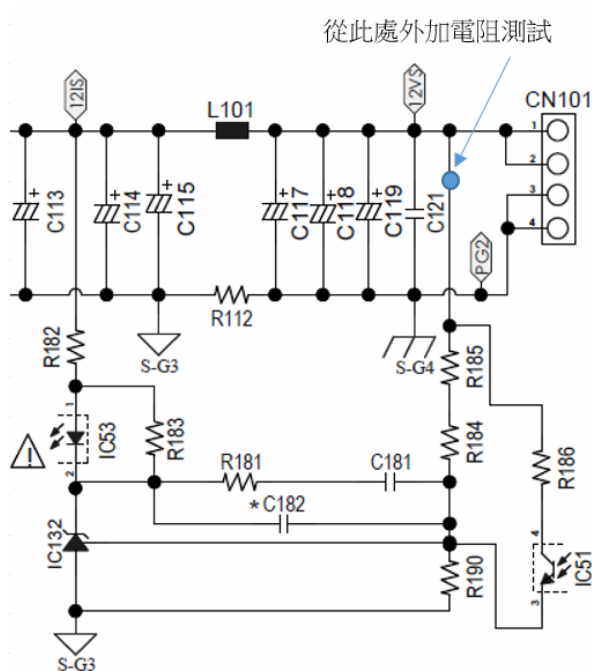
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6.4 Ripple voltage (低溫) 需 power 穩定後才能讀值.

6.5 ESD : 每打一次 ESD,就需對治具放電一次.

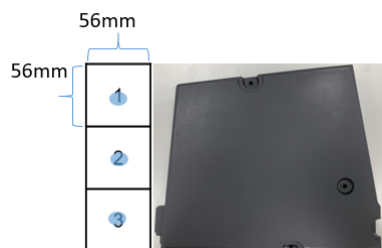
6.6 Acoustic noise test

測試 3 個點 , 藍點為麥克風位置.

Input : 100Vac ,240Vac

Output : 0~2A , 0.015A, 0.25A

Spec : < 50dB(A)



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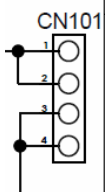
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6.7 OCP test：當 OCP 測試時，每測試一次 OCP 後，需空載 Burn in 1min，再測下一個 OCP，避免過熱影響準確性。

#### 6.8 CN101

|       |            |                                                                                   |
|-------|------------|-----------------------------------------------------------------------------------|
| Pin_1 | Output (+) |  |
| Pin_2 | Output (+) |                                                                                   |
| Pin_3 | Output (-) |                                                                                   |
| Pin_4 | Output (-) |                                                                                   |

6.9 OCP ,測試 OCP 時的 ATS 須修正輸出電流附載的上升斜率 4A/1sec → 12A/sec.

6.10 效率測試時在  $I_o=0.025A$  時需要再 0.025A 等 3 分鐘之後再積分 1 分鐘做測試.

6.11 在測試 0A Pin 的時候，須先 12V/0A 等 5 分鐘後在開始測

6.12 零件點溫做 OCP burn in 時，需要先滿載 burn in 2 小時之後，再測 95% OCP，若輸出 latch，需先再滿載 burn in 3 分鐘之後，再測 90% OCP，以此類推做測試。避免誤測.

6.13 Peak load burn in test condition：

full load(5S)~peak load(30ms)。

6.14 OTP 測試

Fan voltage=12V(8.5CFM)，Fan voltage=11.5V(8.5\*0.8=6.8CFM),所以測試時 Fan voltage 用 11.5V 做測試..

6.15 EMI/RFI 測試時使用與客人一樣的負載做測試  $I_o=20.3A$ .


6.16 變更產線 ATS ripple noise 測試條件 12V/0A → 12V/1A for 客戶要求

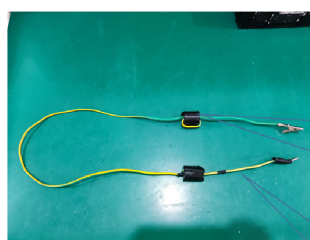
6.17 產線 ATS 滿載冷機效率測試條件 100VAC~240Vac;12V/31A > 84.0% for 客戶要求

6.18 EMI/RFI 測試時使用與客人一樣的接地線設置，需在接地線兩端纏繞夾 core

6.19 變更低溫測試條件 12V/滿載開機改成系統負載開機 20.3A。

6.20 增加接地線設置輔助說明。

|                                                                                                                                                                                                                          |              |                    |                    |                                                           |             |
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| <b>Date</b>                                                                                                                                                                                                              | <b>Drawn</b> | <b>Design (EE)</b> | <b>Design (ME)</b> | <b>DOCUMENT NAME.：</b>                                    | <b>REV.</b> |
| 04/23'24                                                                                                                                                                                                                 | 李亭芳          | 楊曜廷                | 李昱緯                | <b>TS-400GR A SERIES</b>                                  | <b>10</b>   |



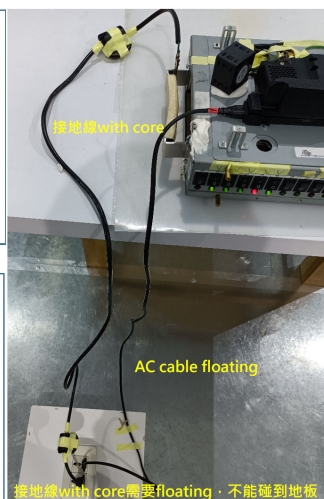
Core P/N:K5B RC 26\*30\*13-MB



線頭與core緊密的結合拉緊如圖示



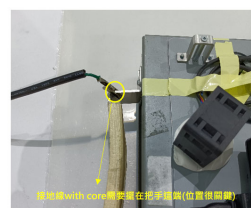
線頭與core若無法緊密結合，需使用膠帶固定並拉緊，如圖示



接地線with core

AC cable floating

接地線with core需要floating，不能碰到地板




接地線with core需安置在指定位置(位置供圖)



接地線與LSN連接的位置

- 6.21 9V hold-up time 測試項目，ATS 100%測試，但是不做 CPK 判定，Bench function team 會做波形抓取並判定。
- 6.22 CR-BOX 測試時，測試電壓設定為 6KV，此測試電壓測試結果與 SIE 系統搭配測試結果最相近，故以此電壓做測試(no function error, no latch off, no damage.)。8KV 判定標準為 (can damage, no quality accident)。

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|                                                                                                                                                                                                           |              |                    |                    |                                                             |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|--------------------|-------------------------------------------------------------|-------------|
|  <b>台達電子工業股份有限公司</b><br><b>DELTA ELECTRONICS, INC.</b>                                                                 |              |                    |                    | <b>DESCRIPTION :</b><br><b>測試注意事項 (Test Specification )</b> |             |
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| <b>Date</b>                                                                                                                                                                                               | <b>Drawn</b> | <b>Design (EE)</b> | <b>Design (ME)</b> | <b>DOCUMENT NAME. :</b>                                     | <b>REV.</b> |
| 04/23'24                                                                                                                                                                                                  | 李亭芳          | 楊曜廷                | 李昱緯                | <b>TS-400GR A SERIES</b>                                    | <b>10</b>   |