

ADP-100WB BE

1. 測試注意事項內容，未經工程師許可，不可任意變更。

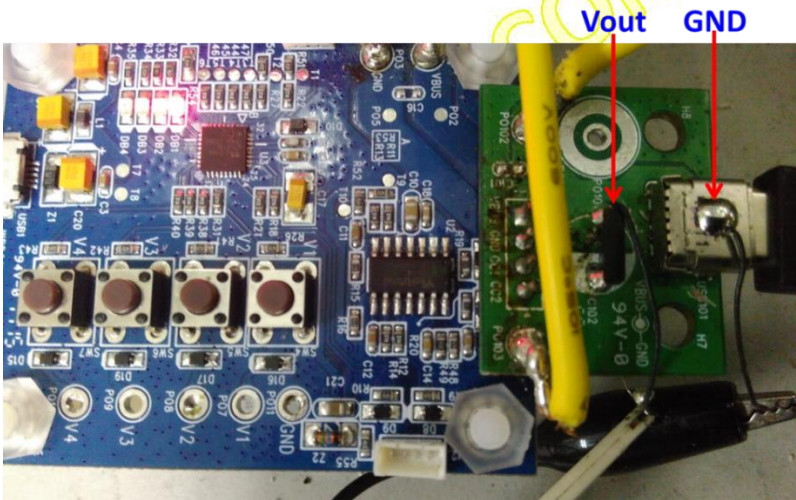
Test Notice contents shall not be changed or revised without engineer permission.

2. 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 需按抽樣標準做抽樣測試。

The production line shall perform all or worst test items/conditions, and QC shall follow the sampling plan to perform the sampling test.

3. 測試注意事項：

- 功能測試時,電子負載需設定 Von 點為 3V.
- 所有 ATS 測試時,須偵測 CONNECTOR 端之電壓.
- ATE 測試治具板:Weltrend P/N:WPD002,F/W Rev:2.0
- 在測試 regulation&ripple 時,治具上各組輸出須接有 0.1uF 電容和 10uF 鉭電容.
- ESD 測試時,使用的治具版本為 V1.02 版,同時上電后要把治具小板移除后再測 ESD。測條件為接觸 $\pm 8\text{kV}$,空氣 $\pm 15\text{kV}$.
- 測試 AVE EFF 和與輸出電壓 Regulation 有關 item 時,治具的電壓採樣點離 cable 末端距離要盡量短,可參考如下圖所示的電壓採樣點來測試.
- CC pin pulse width 測試請參考附件一.



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DELTA ELECTRONICS, INC.

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4. 燒錄 IC :

- a. 預燒錄 IC 之 Location Name= IC131 。
- b. 燒錄注意事項: IC 內建
- c. 所使用之特殊燒錄器形式及特殊 Socket 之規格:TBD
- d. 燒錄程式名稱& Check SUM: TBD

5. 小板(小板名稱)動態測試 : N/A

6. 手調測試站 :

- a. **Full Load Test:**
檢查滿載輸出是否符合規格
- b. **Min. Load Test:**
檢查輕載輸出是否符合規格
- c. **OTP Test:**
Load Condition :5V/3A,9V/3A,15V/3A,20V/5A
敘述測試方法,例如: 短路 NTC131,檢查輸出電壓是否 shutdown and Latch off.
- d. **OVP Test:**
Load Condition: 5V/3A,9V/3A,15V/3A,20V/5A
敘述測試方法,例如: 短路光耦 IC51 的 pin1&pin2, 檢查輸出電壓是否滿足以下要求:
<7.5V(5V/3A)
<11.7V(9V/3A)
<19.5V(15V/3A)
<26V (20V/5 A)
OVP 動作模式為 Latch off.
- e. **LED 狀態:**
N/A
- f. **AC On/Off:**
Power supply 連續開關機 On= 1 秒, Off= 1 秒, 5 次後, 必須無損壞情形。
For bench AC ON/OFF test:判定規格為 no damage



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7. Function test (ATS) procedure : (20VDC)

Input Specification Table:

| INPUT VOLTAGE | MINIMUM | MAXIMUM | NOMINAL(RATED) |
|---------------|---------|---------|----------------|
| LOW RANGE | 90 VAC | 137 VAC | 100~127VAC |
| HIGH RANGE | 180V AC | 265V AC | 200~240VAC |

Output Specification Table:

| OUTPUT | MINIMUM | MAXIMUM | NOMINAL(RATED) |
|---------------|---------|---------|----------------|
| Voltage (Vdc) | 19 | 21 | 20 |
| Loading (Amp) | 0 | 5 | 5 |

| Test Item | Vin | Load | Spec | Remark |
|--------------------------|------------------------|---|---|---|
| Line Regulation | 90/265V 47/63Hz | 0A | 19~21V | |
| Line Regulation | 90/265V 47/63Hz | 5A | 19~21V | |
| Load/Combine Regulation | 90V/265V 47/63Hz | 0.A,2.5A,5A | 19~21V | |
| Ripple & Noise | 90V/47Hz 265V/63Hz | 5A | <350mVp-p | 0.1uF//10uF 鉅電容 25°C |
| Dynamic load | 100V/47Hz 240V/63Hz | 0.00A ~ 5A 0.20A ~ 1.5A 1.00A ~ 3A 1.00A ~ 5A | 18.0~22.0V | S/R: 2.5A/uS, Load On/off= 4ms/6ms Load On/off=50mS/50mS |
| Step load | 90V/47Hz 265V/63Hz | 0.0A ~ 1.0A 1.0A ~ 2.0A 2.0A ~ 3.0A 3.0A ~ 4.0A 4.0A ~ 5.0A | 18.6~21.4V | S/R:0.01A/uS ON/OFF time=50mS/50mS |
| Short Circuit Protection | 90/265Vac | Min. and Max.Load Turn on then short | Auto-recovery (Vo>=4.75V) | |
| Short Circuit Protection | 265V/63Hz | Min. and Max.Load Turn on then short | Auto-recovery (Vo>=4.75V) | |
| Over Current Protection | 90/265Vac | 5A | OCP<=7.5A Auto-recovery (Vo>=4.75V) | |
| Average Efficiency | 115V/60Hz 230V/50Hz | 25%, 50%, 75% & 100% Load | >87% | Cold For 產線測試 |
| Full load Efficiency | 90V/60Hz | 100% | >85% | Cold For 產線測試 |
| Peak Load-1 | 90V/47Hz 265V/63Hz | 5A~7.5A | 18.0~22.0V | Band width:20MHz S/R:2.5A/uS, On/Off=1000mS/5mS 如 load 有最小占空比限制，可以设置 45mS/5mS |
| Peak Load-2 | 90V/47Hz | 6A~5A | 18.0~22.0V | Band width:20MHz S/R:2.5A/uS, On/Off=2S/8S |
| Peak Load-3 | 90V/47Hz | 5A~6.5A | 18.0~22.0V | Band width:20MHz S/R:2.5A/uS, on=4S,not be repeated |
| Output discharge time | 90V/47Hz 265V/63Hz | 3A/0A | 0~275ms | Discharge time 20V->5V <275ms for no load and 3A |
| Hold up time | 115Vac/60Hz | 5A | >10ms | |



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8. Function test (ATS) procedure : (15VDC)

Input Specification Table:

| INPUT VOLTAGE | MINIMUM | MAXIMUM | NOMINAL(RATED) |
|---------------|---------|---------|----------------|
| LOW RANGE | 90 VAC | 137 VAC | 100~127VAC |
| HIGH RANGE | 180V AC | 265V AC | 200~240VAC |

Output Specification Table:

| OUTPUT | MINIMUM | MAXIMUM | NOMINAL(RATED) |
|---------------|---------|---------|----------------|
| Voltage (Vdc) | 14.25 | 15.75 | 15 |
| Loading (Amp) | 0 | 3 | 3 |

| Test Item | Vin | Load | Spec | Remark |
|--------------------------|------------------------|---|---|--|
| Line Regulation | 90/265V 47/63Hz | 0A | 14.25~15.75V | |
| Line Regulation | 90/265V 47/63Hz | 3A | 14.25~15.75V | |
| Load/Combine Regulation | 90V/265V 47/63Hz | 0.A,1.5A,3A | 14.25~15.75V | |
| Ripple & Noise | 90V/47Hz 265V/63Hz | 3A | <350mVp-p | 0.1uF//10uF 鉅電容 25°C |
| Dynamic load | 100V/47Hz 240V/63Hz | 0.0A ~ 2.7A 0.3A ~ 3.0A | 13.5~16.5V | S/R: 2.5A/uS, Load On/Off= 4ms/6ms Load On/Off=50mS/50mS |
| Step load | 90V/47Hz 265V/63Hz | 0.0A ~ 1.0A 1.0A ~ 2.0A 2.0A ~ 3.0A | 14.25~15.75V | S/R: 0.01A/uS, Freq: 1kHz |
| Short Circuit Protection | 90V/47Hz | Min. and Max.Load Turn on then short | Auto-recovery (Vo>=4.75V) | |
| Short Circuit Protection | 265V/63Hz | Min. and Max.Load Turn on then short | Auto-recovery (Vo>=4.75V) | |
| Over Current Protection | 90/265Vac | 3A | OCP<=4.5A Auto-recovery (Vo>=4.75V) | |
| Average Efficiency | 115V/60Hz 230V/50Hz | 25%, 50%, 75% & 100% Load | >86.5% | Cold For 產線測試 |
| Full load Efficiency | 90V/60Hz | 100% | >84.5% | Cold For 產線測試 |
| Output discharge time | 90V/47Hz 265V/63Hz | 3A/0A | <275ms | Discharge time 15V->5V <275ms for no load and full load |
| Peak load | 90V/Hz~ 265V/63Hz | 3A~4.5A | 13.5V~16.5V | S/R:2.5A/uS On/Off time=999mS/1mS 如 load 有最小占空比限制 . 可以設置 19mS/1mS |



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9. Function test (ATS) procedure : (9VDC)

Input Specification Table:

| INPUT VOLTAGE | MINIMUM | MAXIMUM | NOMINAL(RATED) |
|---------------|---------|---------|----------------|
| LOW RANGE | 90 VAC | 137 VAC | 100~127VAC |
| HIGH RANGE | 180V AC | 265V AC | 200~240VAC |

Output Specification Table:

| OUTPUT | MINIMUM | MAXIMUM | NOMINAL(RATED) |
|---------------|---------|---------|----------------|
| Voltage (Vdc) | 8.55 | 9.45 | 9 |
| Loading (Amp) | 0 | 3 | 3 |

| Test Item | Vin | Load | Spec | Remark |
|--------------------------|------------------------|---|---|--|
| Line Regulation | 90/265V 47/63Hz | 0A | 8.55~9.45V | |
| Line Regulation | 90/265V 47/63Hz | 3A | 8.55~9.45V | |
| Load/Combine Regulation | 90V/265V 47/63Hz | 0.A, 1.5 A, 3.0A | 8.55~9.45V | |
| Ripple & Noise | 90V/47Hz 265V/63Hz | 3A | <350mVp-p | 0.1uF//10uF 鉭電容 25°C |
| Dynamic load | 100V/47Hz 240V/63Hz | Load1=0A~2.7A Load2=0.3A~3A | 8.1~9.9V | S/R: 2.5A/uS, On/Off time=4mS/6mS On/Off time=50mS/50mS 示波器測輸出電壓通道設定為 0.2V/div。 |
| Step load | 90V/47Hz 265V/63Hz | 0.0A ~ 1.0A 1.0A ~ 2.0A 2.0A ~ 3.0A | 8.37~9.63V | S/R: 0.01A/uS, Freq: 1kHz 示波器測輸出電壓通道設定為 0.2V/div。 |
| Short Circuit Protection | 90V/47Hz | Min. and Max.Load Turn on then short | Auto-recovery (Vo>=4.75V) | |
| Short Circuit Protection | 265V/63Hz | Min. and Max.Load Turn on then short | Auto-recovery (Vo>=4.75V) | |
| Over Current Protection | 90/265Vac | 3A | OCP<=4.5A Auto-recovery (Vo>=4.75V) | |
| Average Efficiency | 115V/60Hz 230V/50Hz | 25%, 50%, 75% & 100% Load | >84.5% | Cold For 產線測試 |
| Full load Efficiency | 90V/60Hz | 100% | >82.5% | Cold For 產線測試 |
| Output discharge time | 90V/47Hz 265V/63Hz | 3A/0A | <275ms | Discharge time 9V->5V <275ms for no load and full load |



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10. Function test (ATS) procedure : (5VDC)

Input Specification Table:

| INPUT VOLTAGE | MINIMUM | MAXIMUM | NOMINAL(RATED) |
|---------------|---------|---------|----------------|
| LOW RANGE | 90 VAC | 137 VAC | 100~127VAC |
| HIGH RANGE | 180V AC | 265V AC | 200~240VAC |

Output Specification Table:

| OUTPUT | MINIMUM | MAXIMUM | NOMINAL(RATED) |
|---------------|---------|---------|----------------|
| Voltage (Vdc) | 4.75 | 5.25 | 5 |
| Loading (Amp) | 0 | 3 | 3 |

| Test Item | Vin | Load | Spec | Remark |
|--------------------------|------------------------|---|---|---|
| Inrush Current | 265V/50Hz; | 3A | No component damage | Cold start |
| Line Regulation | 90/265V 47/63Hz | 0A | 4.75~5.25V | |
| Line Regulation | 90/265V 47/63Hz | 3A | 4.75~5.25V | |
| Load/Combine Regulation | 90V/265V 47/63Hz | 0A,1.5 A, 3.0A | 4.75~5.25V | |
| Ripple & Noise | 90V/47Hz 265V/63Hz | 3A | <350mVp-p | 0.1uF//10uF 鋁電容 25°C |
| Dynamic load | 100V/47Hz 240V/63Hz | Load1=0A~2.7A Load2=0.3A~3A | 4.10~5.50V | S/R: 2.5A/uS, On/Off time=4mS/6mS On/Off time=50mS/50mS |
| Step load | 90V/47Hz 265V/63Hz | 0.0A ~ 0.75A 0.75A ~ 1.5A 1.50A ~ 2.25A 2.25A~3.0A | 4.40~5.45V | S/R:2.5A/uS 10Hz |
| Short Circuit Protection | 90V/47Hz | Min. and Max.Load Turn on then short | Auto-recovery (Vo>=4.75V) | |
| Short Circuit Protection | 265V/63Hz | Min. and Max.Load Turn on then short | Auto-recovery (Vo>=4.75V) | |
| Over Current Protection | 90/265Vac | 3A | OCP<=4.5A Auto-recovery (Vo>=4.75V) | |
| Average Efficiency | 115V/60Hz 230V/50Hz | 25%, 50%, 75% & 100% Load | >78.7% | Cold For 產線測試 |
| Pin at No Load | 90V/47Hz 230V/50Hz | No Load | <0.15W | For 手測站 3332 測試 · 產品與治具不連接 |



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| Test Item | Vin | Load | Spec | Remark |
|----------------------|------------------------|---------------|----------------|--|
| Full load Efficiency | 90V/60Hz | 100% | >76.5% | Cold For 產線測試 |
| Pin at standby Load | 115V/60Hz 230V/50Hz | 0.25W 0.5W | <0.5W <1.0W | 穩定時間 15s |
| Capacitive Load | 90V/47Hz | 3A | 4.75~5.25V | Parallel 100uF Cap at output |
| Capacitive Load | 265V/63Hz | 3A | 4.75~5.25V | Parallel 100uF Cap at output |
| Start up delay time | 90V/47Hz 265V/63Hz | 3A | <3S | |
| Output rise time | 90V/50Hz | 0-500mA | <10mS | |
| Peak load | 90V/Hz~ 265V/63Hz | 3A~4.5A | 4.10V~5.50V | S/R:2.5A/uS On/Off time=999mS/1mS 如 load 有最小占空比限制， 可以設置為 19mS/1mS |

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.

11. Safety

11.1 Hi-POT test :

PRIMARY to SECONDARY use DC 4242 V test , (上昇時間: DC=1S) .

Test time=1sec.Arcing sense = (EVT1:10mA · EVT2/DVT:10mA · PVT/MP:10mA).

Hi-Limit current=50μA. Lo-Limit current = 0.01uA.

11.2 Insulation Resistance (IR) test:

PRIMARY to SECONDARY use 500Vdc test ; Insulation resistance limit:>100M ohm °

12. Burn-in 測試作業規範

P/R 階段 B/I 32 小時,B/I 電壓和時間分別如下:

5V 8 小時

9V 8 小時

15V 8 小時

20V 8 小時

MP 階段根據品質穩定狀況調整 B/I 時間



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13. I2C 測試作業規範

NA

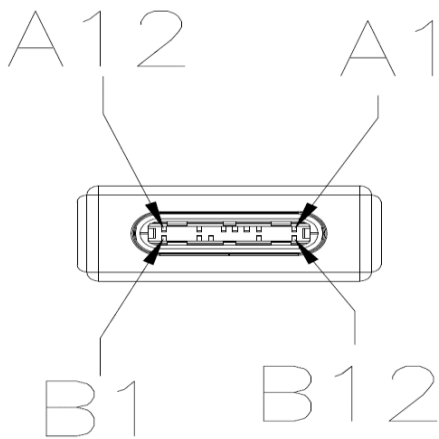
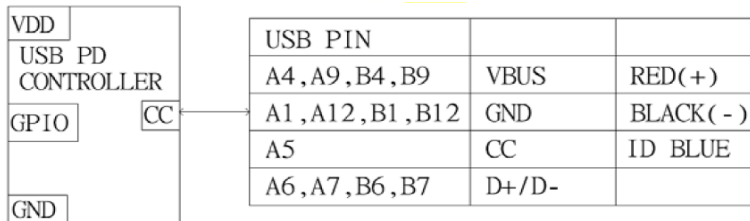
14. FRU Data Barcode Read/Write 測試作業規範

NA

15. DC Cable Connector pin define and related test request.

A. Power cord 之 24pin connector,每 PIN 皆需做短路導通測試。

B. 各 PIN 功能如下，其他皆為空 PIN:



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附件一

此 t_{PULSE1_BMC} 於電壓 0.4375V level 時需符合 1.0 μ S~2.0 μ S 範圍內。

(1)pulse width of transmitted BMC "ONE" signal



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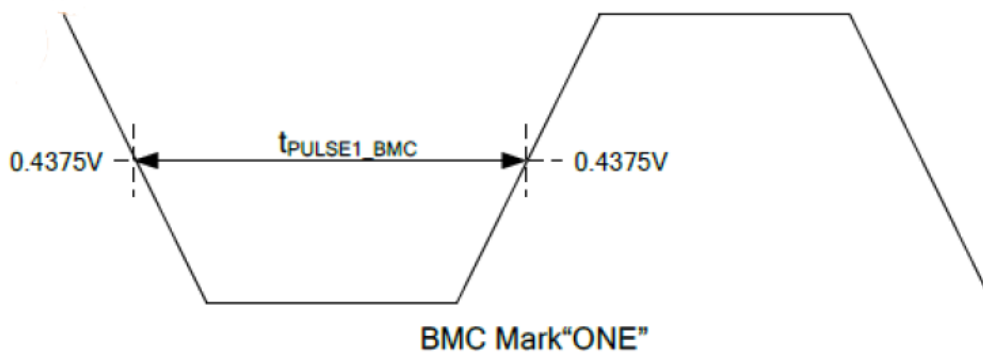
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16. Noise 測試方法:

- A. 測試 5V noise 時用 220Vac 5V/3A 熱機 20min
- B. Load 調節以每次 0.1A 為最小單位進行調節 (Lenovo 測試規範)。
- C. The adapter shall not make any acoustical noise. The noise level is less than 25 dB at 50 mm distance at any condition included dynamic and step load in the development stage, and less than 25 dB at 100 mm distance in MP stage. And less than 10dB at 8k/10k/12.5kHz band at 300 mm distance. Measure with well warm up, and with setting adapter both position of "its label down and up".
- D. Need test and consider Lenovo PA noise standard.

17. Leakage current 測試方法:

- A. 測試 Leakage current 時，輸入線用 15CM 長的短線；
- B. 另外防止設備誤差，Leakage current 不超過 30uA 即可。

18. 客戶規格 CASE 溫升測試

測試條件：All case's rise temperature $\leq 50^{\circ}\text{C}$ when 90Vac or 265Vac input.

All case's rise temperature $\leq 45^{\circ}\text{C}$ when 100Vac or 240Vac input.

Ambient temperature 40°C

測試方法：測試樣品放置於厚度為 3mm 木板上，木板至於鐵板上不架空。

19. ESD 測試標準

AIR 15kV/CONTACT 8kV, Criteria B.



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20. Function test (ATS) procedure : (PPS: 5V-21V)

ORT 手动抽测，产线不测。

Input Specification Table:

| INPUT VOLTAGE | MINIMUM | MAXIMUM | NOMINAL(RATED) |
|---------------|---------|---------|----------------|
| LOW RANGE | 90 VAC | 137 VAC | 100~127VAC |
| HIGH RANGE | 180V AC | 265V AC | 200~240VAC |

Output Specification Table:

| OUTPUT | MINIMUM | MAXIMUM |
|---------------|---------|---------|
| Voltage (Vdc) | 5V | 21V |
| Loading (Amp) | 1.1A | 3A |

| Test Item | Vin | Load | Vout | Remark |
|-----------|--------------------|-------|------|----------------|
| Voltage | 90/265V 47/63Hz | 0A | 5V | Load : CC mode |
| Voltage | 90/265V 47/63Hz | 3A | 5V | Load : CC mode |
| Voltage | 90/265V 47/63Hz | 0A | 8V | Load : CC mode |
| Voltage | 90/265V 47/63Hz | 3A | 8V | Load : CC mode |
| Voltage | 90/265V 47/63Hz | 0A | 12V | Load : CC mode |
| Voltage | 90/265V 47/63Hz | 3A | 12V | Load : CC mode |
| Voltage | 90/265V 47/63Hz | 0A | 16V | Load : CC mode |
| Voltage | 90/265V 47/63Hz | 3A | 16V | Load : CC mode |
| Voltage | 90/265V 47/63Hz | 0A | 21V | Load : CC mode |
| Voltage | 90/265V 47/63Hz | 3A | 21V | Load : CC mode |
| Current | 90/265V 47/63Hz | 5.5V | 3.0A | Load : CV mode |
| Current | 90/265V 47/63Hz | 20.5V | 3.0A | Load : CV mode |
| Current | 90/265V 47/63Hz | 5.5V | 2.0A | Load : CV mode |
| Current | 90/265V 47/63Hz | 20.5V | 2.0A | Load : CV mode |
| Current | 90/265V 47/63Hz | 5.5V | 1.5A | Load : CV mode |



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DELTA ELECTRONICS, INC.

DESCRIPTION :

測試注意事項(Test Specification)

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MODEL NO. :

ADP-100WB BE

| Date | Drawn | Design (EE) | Design (ME) | DOCUMENT NAME. : | REV. |
|------------|-------|-------------|-------------|--------------------|-----------|
| 05/12/2023 | 朱余 | 張志恒 | 楊日新 | TS-100WB BE | 00 |

| Test Item | Vin | Load | Vout | Remark |
|-----------|--------------------|-------|------|----------------|
| Current | 90/265V 47/63Hz | 20.5V | 1.5A | Load : CV mode |
| Current | 90/265V 47/63Hz | 5.5V | 1.1A | Load : CV mode |
| Current | 90/265V 47/63Hz | 20.5V | 1.1A | Load : CV mode |

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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