



## MODEL LIST

ADP-200JB HA	ADP-200JB HB	ADP-200JB HA88	ADP-200JB HD	ADP-200JB HC
ADP-200JB KA	ADP-200JB KB	ADP-200JB KA-2	ADP-200JB KA-3	ADP-200JB KA1W

### 1. Introduction:

This specification define the input, output, performance characteristics, environment, noise and safety requirements for the power supply.

### 2. Electrical Requirements:

#### 2.1 Input Requirements:

##### 2.1.1 Input Voltage

- Normal voltage: 100~240Vrms
- Voltage Range: 90~264Vrms

##### 2.1.2 Input Frequency

- Normal Frequency: 50~60Hz
- Frequency Range: 47~63Hz

##### 2.1.3 Input Current

- Under 2.5 Arms at 100Vac & Max. load

##### 2.1.4 Configuration

- 3 Conductors (Line, Neutral, Ground,)

##### 2.1.5 Input Fuse

- An adequate internal fuse on the AC input line shall be provided.

##### 2.1.6 Inrush Current

- The inrush current of the power supply shall be less than the rating of its critical components (include bridge diode, surge limiting device) for all condition of line voltage of 2.1.1
- The  $I^2t$  shall less than 22% of the fuse, surge limiting device and bridge diode rating.

##### 2.1.7 Efficiency

- The power supply shall meet DOE VI & COC V5 Tier 2 request.
- Four point average efficiency at 25%,50%,75% and100% loading shall be more than 89% after burn in 30 minutes measure at 115V/60Hz and 230Vac/50Hz
- The efficiency at 10% loading shall be more than 79% measure at 115V/60Hzand 230Vac/50Hz



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電氣規格 (Electrical Specification)

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### 2.1.8 Power Factor

-0.9 min @ full load at input AC power 230Vac.

-With active PFC function to meet EN61000-3-2 harmonic current requirement.

### 2.1.9 Primary Aluminum Capacitor

- 450Vdc (min.)

## 2.2 Output Requirements:

### 2.2.1 Electrical

No.	Item	Condition	Specification
1	Output Voltage	Rating	20V
		Output Voltage Range	19~21V
		Ripple & Noise	350mV
2	Output Load Current	Operation Max.	10A
		Operation Min.	0A
3	2) Transient Load Current	Current	0.05~10A
		Transient Frequency	100Hz ~ 100KHz
		Slew rate	2.5A/us

2) The output voltage regulation shall less than( +/-5% )of the rated output voltage in transient mode.

### 2.2.2 Output Voltage Requirement

-The total output voltage regulation shall be meet the spec., including the effects of AC line voltage variation, load current, ripple and noise.

-The effect of transient load changes is included in this limit.

### 2.2.3 Overshoot

-The output overshoot at turn on shall not exceed 21 voltage value with or without the load connected.

### 2.2.4 Hold Up Time

-The power supply shall maintain voltage regulation within the specified limits in paragraph 2.2.1 for at least 16ms after lost of input voltage measure at 100Vac and at maximum output load.

### 2.2.5 Output Rise Time

-At turn on the rise time of output voltage shall be less than 40ms.

\*Measured from the 10% point to the 90% point of the normal.

### 2.2.6 Turn On Delay Time

-No Load Power Consumption supply shall reach voltage regulation within the specified limits in table



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2.2.1 for 3sec max. after AC input the power supply.  
 -The input voltage measure at 100/240Vac and at maximum output load.

#### 2.2.7 No Load Power Consumption

-Maximum non-load power consumption is less than 0.15W at 115Vac/60Hz and 230Vac/50Hz

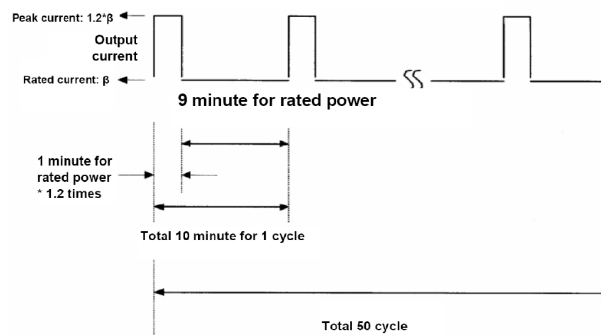
#### 2.2.8 Power saving requirement

-Vin=115Vac/60Hz and 230Vac/50Hz

Output Power (W)	Pin Power (W)	Eff%
18	< 23.5	
5~6.5		> 80%
11	< 14	
3	< 5	
1.65	< 3	
1.5	< 2.2	
1	< 1.6	
0.25	< 0.45	

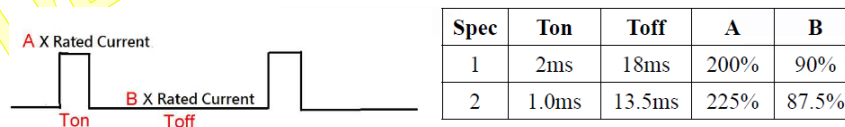
#### 2.2.9 Surge load:

The adapter shall support a surge load with 120% of maximum load for 1min ,maximum load for 9min and Output Voltage more than 18.5V at input voltage is 100-240Vac



#### 2.2.10 Peak load:

The adapter shall support below loading condition without any damage, safety issues and protection happen (OTP is allow). The output voltage shall more than 18.3V at input voltage is 100-240V/50Hz .



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#### 2.2.11 Hot Plugging:

Plugging a live AC adapter into the system with 2000 uF capacitance shall not trigger any protections or cause the adapter to shut down

#### 2.2.12 Voltage Dips

Follow the test item “ 30% reduction , 25 periods ” in IEC 61000-4-11 Standard.

Criteria : A

(a) AC Input = 100Vac/50Hz

(b) Load : Full Load

### 2.3 Power Output Protection:

#### 2.3.1 Over Current Protection (OCP)

-The maximum constant current shall be less than 12~16A at 90Vac and 264Vac.

-The adapter Shall be Latch off and no component damage.

-Debounce time 400ms

#### 2.3.2 Over Voltage Protection (OVP)

-The output shall be protected to latch off at over-voltage condition,maximum value can't be over 27V.

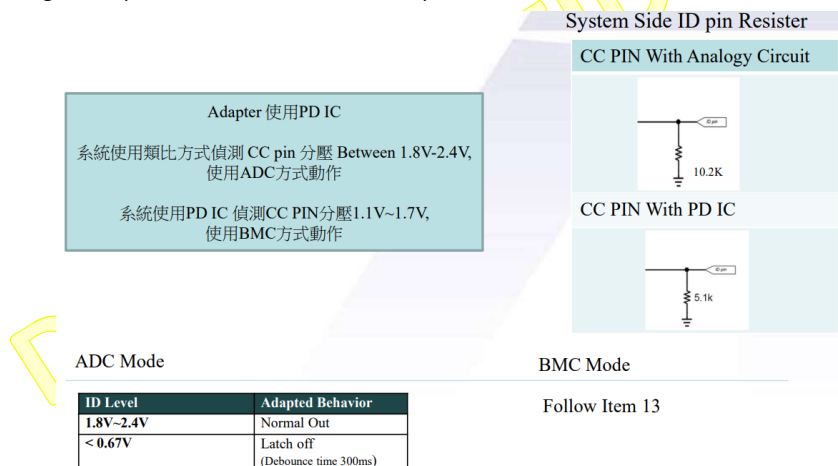
#### 2.3.3 Short Circuit Protection (SCP)

-The power supply short output shall be Latch off and no component damage.

#### 2.3.4 Over Temperature Protection (OTP)

The adapter shall be Latch off and no component damaged, no fire and no melting of the enclosure.

#### 2.3.5 DC Plug OTP(FOR ADP-230JB KA/KB)



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### 3. Reliability:

#### 3.1 MTBF:

- The power supply shall be designed and produced to have a MTBF of 150,000 operation hours at 90% confidence – level while operating under the following condition
- AC input voltage: 100 and 240Vrms
- Ambient Temp. : 25°C

#### 3.2 Life/Power On Hours

The lifetime is least 26280 hours in Full load at 25°C at 100Vac/60Hz and 240Vac/50Hz on bakelite.

#### 3.3 Burn-in Test Condition

- More than 4 hours at 35°C, normal input voltage.
- AC on/off must be tested.

#### 3.4 Surge Voltage (For DT Type Only)

1. 264Vac to 400Vac for 1 min
2. 264Vac to 430Vac for 2sec
3. Bulk Cap : 450Vdc

### 4. Safety & EMC:

#### 4.1 Safety Certificate

- The power supply unit shall be tested with the following safety standard (IEC62368-1 3<sup>rd</sup>).
- Certificate : Follow safety control table
- Trade mark: ASUS

#### 4.2 Insulation Resistance

- Insulation resistance shall be > 30M ohm at 500Vdc between primary Live, Neutral and secondary.

#### 4.3 Hi-Pot Test

- Primary to Secondary : 3.0KVac or 4242Vdcfor 1minute
- Primary to FG :1.5KVac for 1minute

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#### 4.4 Leakage Current

- The power supply leakage current shall be less than 100 uA.@240Vac/50Hz
- Test with AC cable 80cm

#### 4.5 Surge & Impulse Test

- Lighting Surge :  $\pm 1.5\text{KV}$  (L-N) ;  $\pm 2.5\text{KV}$  (L-FG; N-FG)
- Impulse Noise Test: 1KV

#### 4.6 EMI standard

- The power supply shall comply with a following RFI/EMI standards when tested in a system configuration.
- F.C.C part15
- EN55032
- The limits shall be met with a margin more than 6dB at all applicable.

#### 4.7 Electrostatic Discharge (ESD)

- This Adapter is capable to withstand ESD test voltage at any point around the enclosure as below.
- $\pm 15\text{KV}$  air discharge Performance Criterion A.
  - $\pm 8\text{KV}$  contact discharge Performance Criterion A.

### 5. Environment Requirements:

#### 5.1 Temperature

- Operation: 0~35°C; Storage: -30~80°C

#### 5.2 Humidity (no condensing)

- Operation: 5~90%; Storage: 5~90%

#### 5.3 Surface Temperature rise

- Output 200W and ambient 25°C; input voltage 100Vac/240Vac 50Hz
- Top case temperature rise<45°C, Bottom case temperature rise<50°C

#### 5.4 Acoustic test:

Input Condition



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90V/47Hz & 254V/63Hz

**Load Condition:**

Dynamic load: 0.05~10A at 100Hz and 100KHz

static load(from 0A to full load,0.1A pre step)

**NB ADAPTER SPEC :**


**Static Load**

Desktop Type : Microphone at a distance of 5cm from the surface and noise level is less than 20dB

**Dynamic Load**

Desktop Type : Microphone at a distance of 5cm from the surface and noise level is less than 25dB

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## 6. Mechanical

6.1 Outline Dimension: 152.0 \* 72.5 \* 23.0 mm, color: Black

6.2 AC Inlet Type: Socket C6 type

6.3 DC Cable length: 1800±50 mm

6.4 DC Cable Type:

Cable Type	Model Name
UL1571 16AWG	ADP-200JB HA/HB
UL11352 16AWG	ADP-200JB HC/HD
UL 20276 16 AWG	ADP-200JB KA/KB/KA1W/KA-2/KA-3

6.5 DC Connector Dimension:

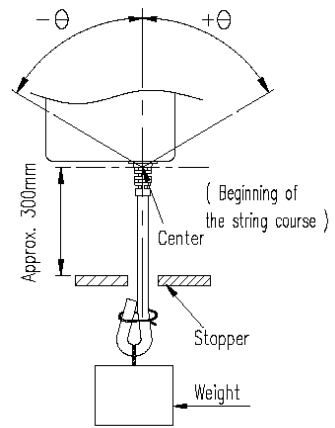
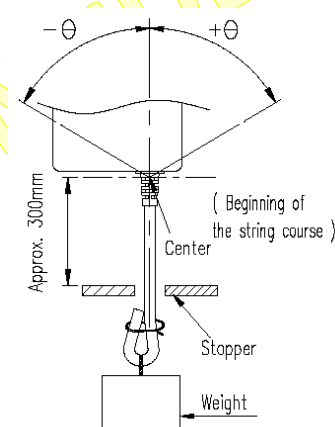
Item					
Model Name	Plug Shape	Outside Dimension (-)	Inside Dimension (+)	ID Pin	Length
ADP-200JB HA/HB	Right Angel (L-shape)	6.0	3.5	0.6	11.5
ADP-200JB HD	Right Angel (L-shape)	4.5	2.9	0.6	10.0
ADP-200JB HC	ASUS 方型	方型 7.5*3.9			10.1
ADP-200JB KA	ASUS 方型	方型 7.5*3.9 PLUG: ACES 56923-02022-101 DC JACK : ACES 56921-01902-Z01 (REF.)			10.1
ADP-200JB KB	ASUS 方型				
ADP-200JB KA1W/KA-2/KA-3	ASUS 方型				

6.7 ADP-200JB H SERIES Adapter Weight: 496g ±2.5%

6.8 ADP-200JB K SERIES Adapter Weight: 472g ±2.5%

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## Mechanical characteristics

Item	Conditions	Specification
1. Cord flexibility test(Delta)	<p>Hang the specified weight and swing it to one direction and return to the original position then swing to the opposite direction and return to the original position. This constitutes one cycle. The DC power supply shall be subjected to the specified cycles a specified speed.</p> <p>Delta SPEC.</p> <ol style="list-style-type: none"> <li>Weight: 200g</li> <li>Swing angle (<math>\theta</math>): <math>0^\circ \sim 180^\circ</math></li> <li>Cycles: 1000,3000,10000cycles</li> <li>Speed: 40 cycles/min.</li> <li>Compliance: Plug SR, case SR, Core SR.</li> </ol> 	<p>Disconnection rate of the wire shall be</p> <p>1000 cycles –less 10%</p> <p>3000 cycles – less 30%</p> <p>10000 cycles – less 100%</p> <p>without damage to the insulations, etc..</p>
1. Cord flexibility test(ASUS)	<p>Hang the specified weight and swing it to one direction and return to the original position then swing to the opposite direction and return to the original position. This constitutes one cycle. The DC power supply shall be subjected to the specified cycles a specified speed.</p> <p>Customer SPEC.</p> <ol style="list-style-type: none"> <li>Weight: 200g</li> <li>Swing angle (<math>\theta</math>): <math>0^\circ \sim 90^\circ</math></li> <li>Cycles: 3000,10000cycles</li> <li>Speed: 40 cycles/min.</li> <li>Compliance: Plug SR, case SR.</li> </ol> 	<p>CRITERIA:</p> <p>Disconnected rate of the wire shall be:</p> <ol style="list-style-type: none"> <li>Case SR</li> <li>Plug SR</li> <li>Without damage to the insulations. Etc.</li> </ol> <p>3000 cycles – less 10%</p> <p>10000 cycles – less 100%</p>



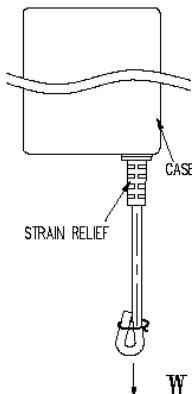
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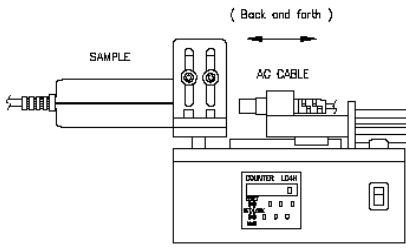
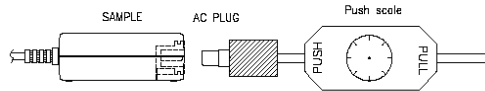
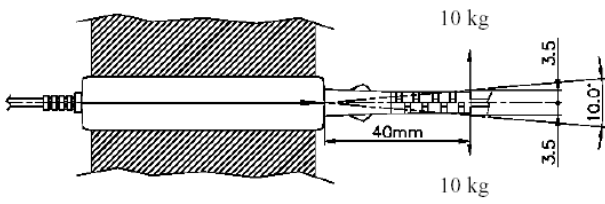
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2.	Cord tensile test	<p>A static load shall be applied and sustained for a period. Excessive load shall not be applied in this test, unless special request.</p> <p>Load (w): 10 kgf Durance: 60 sec</p> 	Contact part and bushing shall not be detached.
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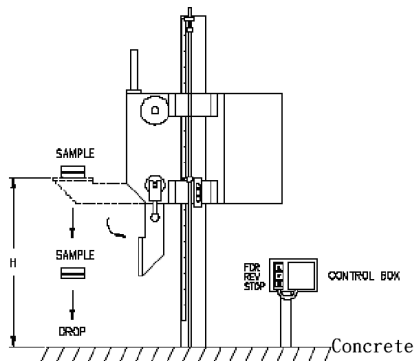
Item		Conditions	Specification
3.	AC plug in-out cycle test	<p>AC plug in-out of AC inlet 6000 times, 30 times/min. without current flow.</p> 	<ol style="list-style-type: none"> <li>1. No found the AC inlet or pin damage.</li> <li>2. ATS function Pass. Without distinct damage in appearance.</li> <li>3. Refer to IEC 320 requirement.</li> </ol>
4.	AC socket insert-withdraw force test	<p>After AC plug in-out cycle test , AC cable insert-withdraw to AC inlet 10 times</p> 	<ol style="list-style-type: none"> <li>1. Insert force must be keep 10N ~ 50N.</li> <li>2. Withdraw force must be lower 60N.</li> <li>3. This test depends on IEC 320 requirement.</li> </ol>
5.	Wiggle test	<p>AC cable inserted fully into AC inlet to wiggle 6000 times, 30 times per minute, then adjust the fixture to fit the wiggle angle in up and down each side 5 degree, ac cable up and down without current flow. (example: L=40 mm , amplitude = +- 3.5 mm , force = 10 kg )</p> 	<ol style="list-style-type: none"> <li>1. After this test, no found the AC inlet or pin damage.</li> <li>2. Without distinct damage in appearance.</li> <li>3. ATS function Pass.</li> </ol>


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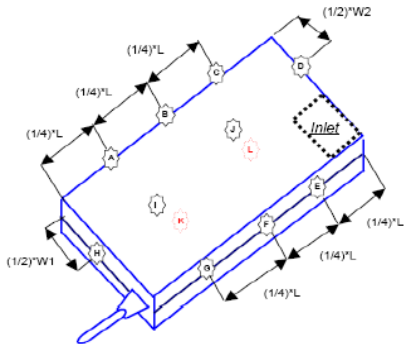
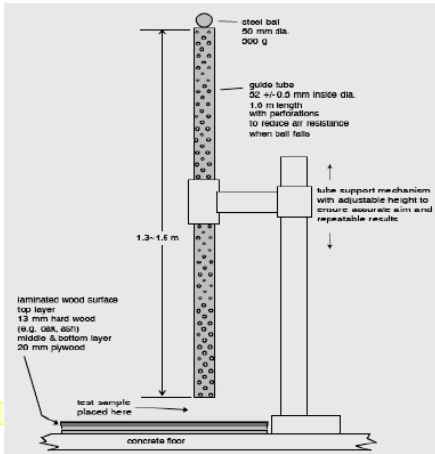
6.	Vibration	Non-operating, Random vibration: 5~100 Hz    0.015 G2/Hz 100~137 Hz    6 dB/oct 137~350 Hz    0.008 G2/Hz 350~500 Hz    -6 dB/oct  Acceleration: 2.09 Grms Duration: 20 min. Direction: X,Y,Z	1. PSU must operate with specification after non-operation test.  2. PSU shall be no mechanical damage after test.
7.	Shock	Non-operating 1. Pulse: Half sine wave. 2. Peak acceleration: 50 G 3. Duration: 11 ms 4. Number of shock: 1 shock per each direction, 6 directions.	1. PSU must operate with specification after non-operation test.  2. PSU shall be no mechanical damage after test.

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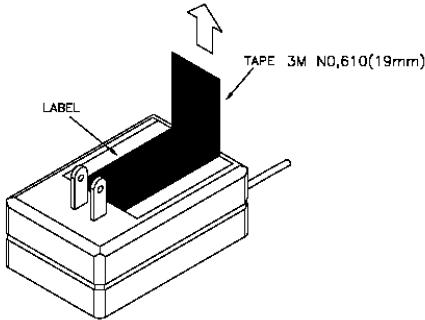
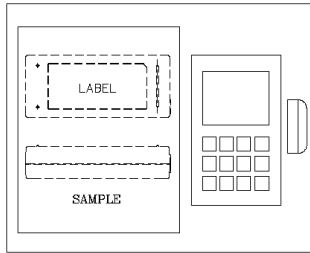
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Item		Conditions	Specification
8.	Drop test (Delta)	1. Operating a. The drop height: H= 76 cm. b. The drop orientation: 6 face for each. c. Power on	1. ATS function Pass. 2. No PWB copper pad peeling and broken. 3. No soldering crack. 4. No component broken.
		2. Low height drop Drop TIMES: 130 times for every surface (six side), 780 times in total. Test surface material : The concrete Drop height: 10cm	
		3. Non-operating a. Drop height: H= 110 cm. b. The drop orientation: 6 face for each.	1. Hi-pot test pass with specific condition. 2. Test Finger can't touch the Hazardous Voltage of the product.
8.	Drop test (ASUS)	1. Drop 8 times (6 faces) on each cycles from a height of 1.0M onto a concrete surface. Increase the height in steps of 0.2M until the case is broken.(or 1.3M) Must has 10cm margin during design stages.	CRITERIA: ● Electrical: The unit should meet all specification and no function error after test 1.1M testing ● Mechanical: There shall be no visual damage and safety concern after 1.3M testing.
		Equipment: 	

 <b>台達電子工業股份有限公司</b> <b>DELTA ELECTRONICS, INC.</b>				DESCRIPTION : 電氣規格 (Electrical Specification)	
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Date	Drawn	Design (EE)	Design (ME)	DOCUMENT NAME. : <b>ES-200JB SERIES</b>	REV.
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9.	Ball impact	<p>1. Steel ball: 0.54 kgf .  2. Drop height: 130 cm.  3. A horizontal surface of laminated wood of hardwood at least 13mm thick, mounted on two layers of plywood each 19mm to 20mm thick, all supported on a concrete floor.  4. Impact location: Classify according to DUT's dimension. LxWxH</p> <p style="text-align: center;"> <math>L+W &lt; 150</math>    B,D,F,H,I,K  <math>150 &lt; L+W &lt; 200</math>    A,C,D,E,G,H,I,J,K,L  <math>200 &lt; L+W</math>    A,B,C,D,E,F,G,H,I,J,K,L </p>  <p>5. Equipment:</p> 	<p>1. Hi-pot test pass with specific condition.  2. Test Finger can't touch the Hazardous Voltage of the product.</p>
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10.	Acoustic Noise	Frequency: 100 ~ 20kHz Measurement distance: 5 cm above DUT surface	The Adapter shall produce no human perceivable audible noise (less than 25dB) No load : < 22dB 0~Full Load : Frequency ≤ 15kHz, 25dB Max. Frequency > 15kHz, 30 dB Max.
11.	Adhesion of specification labels	Firmly apply pressure sensitive adhesive tape on the middle of the specification label to the lengthwise direction. Pull the tape off quickly at a 90° angle to the surface of the label once. 	There shall be no blistering or peeling of the specification label
12.	Label Temperature test	1. The label is supposed to be pasted on PC, PC+ABS and ABS case evenly and properly for 24 hours. 2. The label will be burnt in 72 hours in oven which temperature is 85℃ 	The label can't be any bulge and warp.

Product Application: Notebook

Product Ingress protection(IP) rating: Not requirement

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