REV.	Description	Date
S00	SPEC ISSUE (NEW MODEL)	02/21'24
S01	102A-243197 Change item3.4 "UL20276 18AWG*2+24AWG*1" to "UL20276 20AWG*2+24AWG*1"	03/22'24
S02	102A-244034 Item 1.2.14.5 PPS and AVS	04/09'24
S03	102A-245090 item 2.10.2 Electrolytic aluminum cap life time 刪除"in full load	05/15'24
S04	102A-247338 Change item3.7 Adapter Weight from 210g±2.5% to 204.3g±2.5%	07/30'24
S05	102A-248036 Change Mechanical characteristics item13 from "External enclosures are subjected to a steady force 250N±10N for a period of 5 sec." to "External enclosures are subjected to a steady force 12.2kg (120N) for a period of 60 sec."	08/06'24
S06	102A-248120 Change 1.2.11 Load transient respone For 9V mode output voltage shall within +-5% change to 10% 15V: 14.25~15.75 change to 13.5~16.5(15V)	08/12'24



台達電子工業股份有限公司 DESCRIPTION: 電氣規格(Electrical Specification)

REV. Description Date THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DELTA MODEL NO.: ELECTRONICS, INC. AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SELL OF APPARATUSES OR DEVICES ADP-65ZW SERIES WITHOUT PERMISSION. REV. Design (EE) Drawn Design (ME) Date DOCUMENT NAME.: **ES-65ZW SERIES S06** 08/12'24 邱美淳 胡育嘉 陳俊豪

Frame Name:DF-PSLA4V-2R01.DOC

SHEET <u>2</u> OF <u>19</u>

MODEL LIST

ADP-65ZW BNA			
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1. ELECTRICAL

- 1.1 Input Characteristics:
 - 1.1.1 Nominal Voltage

It is normal for **100** ~ **240Vac** input AC voltage.

1.1.2 <u>Input Voltage Range</u>

The Adapter shall operate from 90 ~ 264Vac.

1.1.3 Rated Frequency

It is normal for **50Hz** or **60Hz** and single phase.

1.1.4 Frequency Range

The Adapter shall operate with an input frequency from **47 Hz** to **63 Hz**.

1.1.5 <u>Input Current</u>

1.5A Max at **100Vac** input voltage.

1.1.6 <u>Inrush Current Limit (cold start)</u>

The I²t shall less then 22% of the Fuse.

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90	8/12'24	邱美淳	胡育嘉	陳俊豪	ES-65ZW SERIES	S06

1.1.7 Efficiency (Warm Up)

1.1.7.1 Nominal input voltage, maximum load and measured at the end of DC cable.

(Warm up after 30min)

Vout	Efficiency
5	79.3%
9	84.5%
15	86.5%
20	87.0%

1.1.7.2 Active mode efficiency:

average efficiency of 25%,50%,75% and 100% load tested at 115Vac/60Hz and 230Vac/50Hz.(Warm up after 30min)

Vout	Efficiency
5	82.385%
9	87.62%
15	88.852%
20	89.00%

The efficiency at 10% loading shall be more than

76.835% (5V); 82.295%(9V); 83.853%(15V)

84%(20V) measure at 115Vac/60Hz and 230Vac/50Hz

1.1.8 No Load Power Consumption

5V only: Maximum non-load power consumption is less than 0.075W at 115Vac/60Hz and 230Vac/50Hz

1.1.9 <u>Power saving requirement</u>

115Vac/60Hz, 230Vac/50Hz. (20V)

Ootput Voltage (V)	DC POWER(W)	AC Spec. Power (W)
20V	18.0	<21
	11.0	<14

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	5~6.5	Eff.>80%
	3	<5
	1.65	<3
	1.5	<2.2
	1	<1.6
	0.25	<0.47
5V	0.15	<0.28

1.2 Output Characteristics:

1.2.1 Rated Voltage

The rated output voltage is specified at $5V\,/\,9V\,/\,15\,/\,20V.$

1.2.2 <u>Voltage Range</u>

The output voltage range

Vout	Voltage Range
5	4.85~5.5V
9	8.55~9.45V
15	14.25~15.75V
20	19~21V

1.2.3 <u>Current</u>

This Adapter can work from **0 A** to **3 A** (**5V**~**15V**) and **0 A** to **3.25 A** (**20V**) output voltage is in section 1.2.2 specified range.

Vout	Load
5	0~3A
9	0~3A
15	0~3A
20	0~3.25A

1.2.4 Output Ripple and Noise

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Output ripple voltage is 180mV / 200mV / 300mV / 300mV peak to peak.

Measured methods:

- T1. Performed by **20M** Hz bandwidth in oscilloscope.
- T2. Applied **0.1uF** high frequency capacitor and **10uF** electrolytic capacitor across output connector terminals.
- T3. Measured at the end of DC cable.
- T4. 47Hz and 63Hz tested at 90Vac and 264Vac. @ 25°C

Vout	Ripple and Noise
5	180mV
9	200mV
15	300mV
20	300mV

1.2.5 Turn On delay time

The Adapter shall switch on in less than **3 seconds** (5V only) at input voltage is 100Vac~240Vac.

1.2.6 Hold –up time

The output voltage shall be sustained **5mS** (20V only) within regulation requirement after loss 100Vac and maximum load.

1.2.7 Rise time

DC output rise time from 10% to 90% of output voltage shall be less than **40mS** (5V only) at nominal line and maximum load.

1.2.8 Overshoot

The output overshoot at turn on shall not exceed 10% of normal voltage value with or without the load connected.

1.2.9 <u>Peak load (20V/15V only)</u>

The adapter shall support below loading condition without and damage, safety issues and protection happen. The

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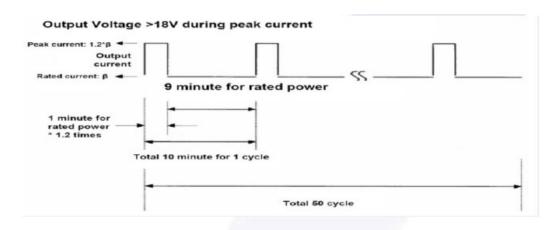
output voltage shall more than 18.3V (20V mode) / 13.5V (15V mode) at input voltage is 100-240V ac/50Hz-60Hzin 25°C.



Spec	Ton	Toff	A	В
1	2ms	18ms	200%	90%
2	250us	2.25ms	225%	87.5%

1.2.10 <u>Surge load (20V/15V only)</u>

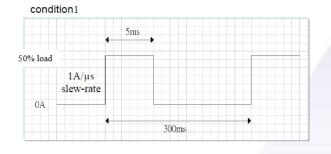
The adapter shall support a surge load with 120% of maximum load for 1min , maximum load for 9min and Output Voltage more than 18.5V/13.7V at input voltage is 100-240Vac in $25^{\circ}C$.



1.2.11 <u>Load transient response</u>

(1) For 5V Output and 9V output must to meet condition 1 and condition 2 $\,$

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condition2

Sms

Max load

1A/µs
slew-rate
50% load

30ms

For 5V mode
Output voltage range:

- -Max . 5.8V
- -Min. 4.6V

For 9V mode Output voltage shall within +/-10%

- (2) The adapter must within regulation when applied a step load from 0.05A to 100% load at
 - 2.5A/us slew rate, 50% Duty cycle, Frequency be operated 100Hz/100KHz in 25°C.

The output voltage will be performed 13.5~16.5(15V); 19 ~ 21V(20V)

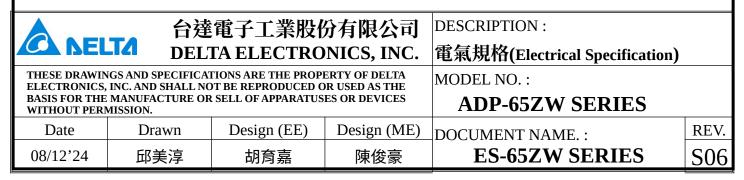
1.2.12 Hot Plugging

Plugging a live AC adapter into the system with 100uF (for 5V Mode) and 1000uF (for 15V/20V Mode) capacitance shall not trigger any protections or cause the adapter to shut down

1.2.13 Voltage Dips (for 20V Mode)

-Follow the test item " >95% reduction , 0.5 period " in IEC 61000-4-11 Standard. -The output voltage shall be more than 14.5V at the below condition :

(a) AC Input = 100Vac/50Hz



- (b) Load =33W~ 45W constant power (instead of constant current)
- -Follow the test item "30% reduction, 25 periods" in IEC 61000-4-11 Standard. -Criteria: A
- (a) AC Input = 100Vac/50Hz
- (b) Load = 33W~ 45W constant power (instead of constant current)

1.2.14 Protection

1.2.14.1 Over Voltage Protection

The output shall be protected to **AC latch-off** at over-voltage condition. That might be return to normal state by AC reset.

Vout	OVP
5	7.5V
9	13.5V
15	20.25V
20	27V

1.2.14.2 Over Current Protection

The adaptor shall be **DC latch-off** with 60ms deglitch time. (It will enter into normal condition by re-plug in DC plug)

Vout	OCP
5	3.3~3.6A
9	3.3~3.6A
15	3.9A~5A max
20	3.9A~5A max

1.2.14.3 Short Circuit protection

Output can be shorted without damage. The adaptor shall be **DC latch-off**. (It will enter into normal condition by re-plug in DC plug)

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1.2.14.4 Over Temperature Protection

No deformation and no discoloration on case and will be shut down (**AC or DC latch-off**). That will be return to normal state by re-plug in DC plug

1.2.14.5 PPS and AVS function

Item	Vout	Load
PPS	5V~21V	3A
AVS	9V~14.9V	3A
	15V~20V	3.25A

2. Environmental

2.1 <u>Temperature</u>

2.1.1 Operating

The AC Adapter shall be capable of operating at full load with an ambient temperature range of 0 °C to +40°C.

2.1.2 Shipping/Storage

The AC Adapter shall be capable of withstanding ambient temperature from -30°C to +80°C.

2.2 <u>Humidity</u>

2.2.1 Operating

The AC Adapter shall be capable of operation in relative humidity of **5% to 90%** relative humidity, non-condensing.

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2.2.2 Shipping/storage

The AC Adapter shall be capable of withstanding ambient relative humidity of **5% to 95%** relative humidity, non-condensing.

2.3 <u>Immunity</u>

2.3.1 Lightning Surge Immunity

This is to follow the norm of IEC-1000-4-5 Level 3 requirements.

L-N +-1.5KV/1.2 * 50uS 5 times No function error.

L-FG, N-FG +-2.5KV/1.2 * 50uS 5 times No function error.

2.3.2 Electric Fast Transients(EFT)

This is to follow the norm of IEC-1000-4-4/1995

(EN 61000-4-4) Level 3 requirements

2.4 <u>Electrostatic Discharge (ESD)</u>

This Adapter is capable to withstand ESD test voltage at any point around the enclosure as below.

±15KV air discharge performance criterion B.

±12KV air discharge performance criterion A.

±8KV contact discharge performance criterion A.

2.5 <u>Surface Temperature rise</u>

Ambient **40°C**; input voltage 100Vac/240Vac case temperature rise **≤40°C** with system loading (95%) on bakelite.

2.6 <u>Dielectric Withstand Voltage (HI – POT)</u>

Between AC input and secondary AC 3KV test time 1 minute; 100% of line products of this Adapter shall be applied 3000Vac for 2 seconds between AC input terminals and output terminals. Cut off current 10mA.

2.7 <u>Leakage Current</u>

Y cap no more than 220pF.

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Leakage current no more than 20uA(max) at 240Vac/50Hz.for delta product line.

2.8 <u>Insulation Resistance</u>

The insulation resistance shall be not less than 30M ohms after application of 500Vdc/10mA for 1 minute.

2.9 Electromagnetic Interference (EMI)

The adapter shall comply with the following national standards.

- (a) FCC Part 15.
- (b) CISPR 22 Class B.
- (c) The limits shall be meet with a margin more than 4dB with all system applicable.

2.10 MTBF

2.10.1 MTBF (Mean-Time-Between-Failures) Calculation

The calculated MTBF shall be 150,000 hours of continuous operation at 25°C,

maximum load and 100Vac / 240Vac.

2.10.2 Electrolytic aluminum cap. Lifetime

The lifetime is least 26280 hours at 25°Cat 100Vac/60Hz and 240Vac/50Hz,DC output load : 95%.

2.11 Safety request

Meet IEC 60950-1

Meet IEC 62368-1

Meet LPS

Meet DOE Level6

Meet COC Tire2

2.12 Acoustic test

Input Condition

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Vin: 90Vac~264Vac Frequency: 47Hz to 63 Hz

Load Condition:

(a)Dynamic Load follower ASUS Spec

(b)Static Load

-for 5V: 0.02A/step (No load to 2W), and 0.1A/step (2W to Full load)

- for 9V/15V: 0.01A/step (No load to 2W), and 0.1A/step (2W to Full load)

- for 20V: 0.005A/step (No load to 2W), and 0.1A/step (2W to Full load)

NB ADAPTER SPEC:

Static Load

WM Type: Microphone at a distance of 10cm from the surface and noise level is less than 20dB Desktop Type: Microphone at a distance of 5cm from the surface and noise level is less than 20Db

Dynamic Load

WM Type : Microphone at a distance of 10cm from the surface and noise level is less than 25dB Desktop Type : Microphone at a distance of 5cm from the surface and noise level is less than 25dB

3. Mechanical

3.1 Outline Dimension: 63.0 * 63.0 * 28.5 mm, color: Black

3.2 Plug Type

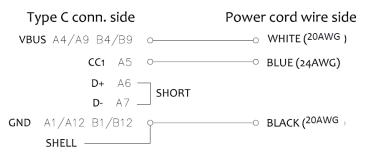
MODEL LIST	Тур
	е
ADP-65ZW BNA	US

3.3 DC Cable Length: 2000 mm

3.4 DC Cable Type: UL20276 20AWG*2+24AWG*1

3.5 DC Connector Dimension: USB TYPE C3.6 Pin assignment of Type C connector:

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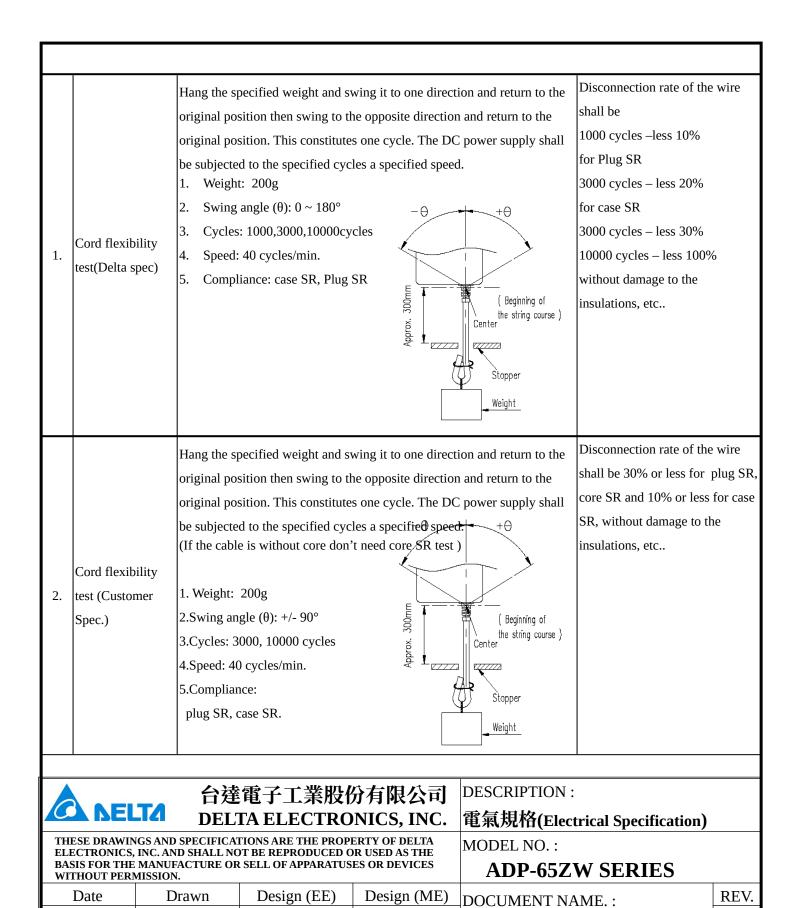
3.7Adapter Weight:

MODEL LIST	Weight
ADP-65ZW BNA	204.3g±2.5%

Mechanical characteristics

Item	Conditions	Specification
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邱美淳

胡育嘉

08/12'24

陳俊豪

ES-65ZW SERIES

S06

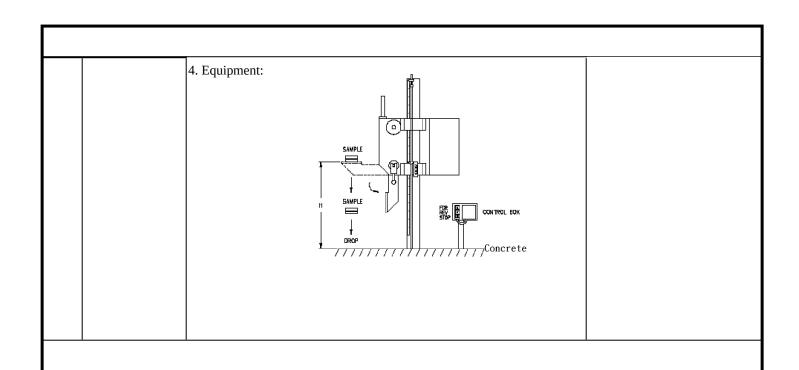
		A static load shall be applied and sustained for a period. Excessive load shall not be applied in this test, unless special request.	Contact part and bushing shall not be detached.
3.	Cord tensile test	Load (w): 10 kgf Durance: 60 sec STRAIN RELIEF W	
4.	Vibration	Non-operating, Random vibration: 5~100 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	PSU must operate with specification after non-operation test. 2. PSU shall be no mechanical damage after test.

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5.	Shock	1. Number of shock: 1 shock per each direction 6 directions	PSU must operate with specification after non-operation test. 2. PSU shall be no mechanical damage after test.

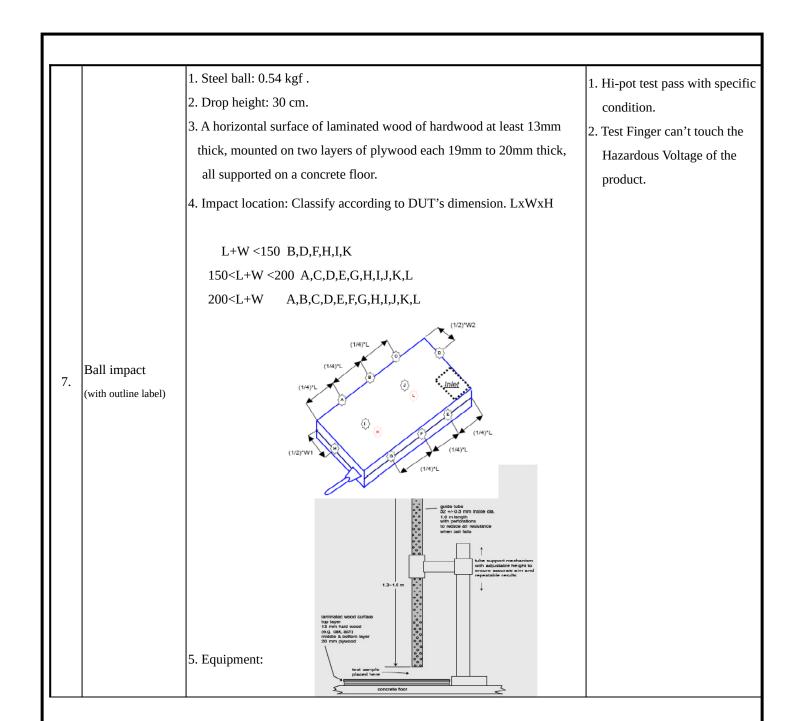
	Item	Conditions	Specification
6.	Drop test (with outline label)	 Operating a. The drop height: H= 76 cm. b. The drop orientation: 6 face for each. c. Power on Non-operating a. Drop height: H= 110 cm. b. The drop orientation: 6 face for each. 	 ATS function Pass. No PWB copper pad peeling and broken. No soldering crack. No component broken Hi-pot test pass with specific condition. Test Finger can't touch the
		3. Low height drop Drop TIMES: 130 times for every surface (six side), 780 times in total. Test surface material: The concrete Drop height: 10cm	Hazardous Voltage of the product.

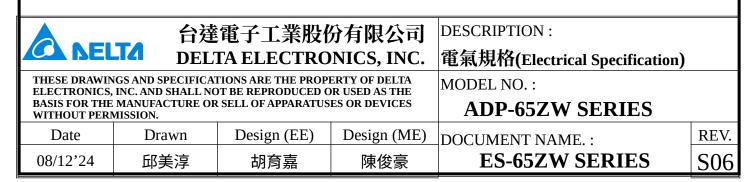
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Item	Conditions	Specification

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	Ι	T	
			1. The blade can't be any
			crack or damage.
		1. Bending angle 15 °for either side.	2. This test refers to JIS
		2. Bending speed 10 times per minute.	C8303 requirement.
		3. Must withstand 30 times totally.	
		Equipment:	
8.	AC Inlet	Arm controller: Delta.	
o.	Bending(I)	Blade Arm WW SAMPLE	

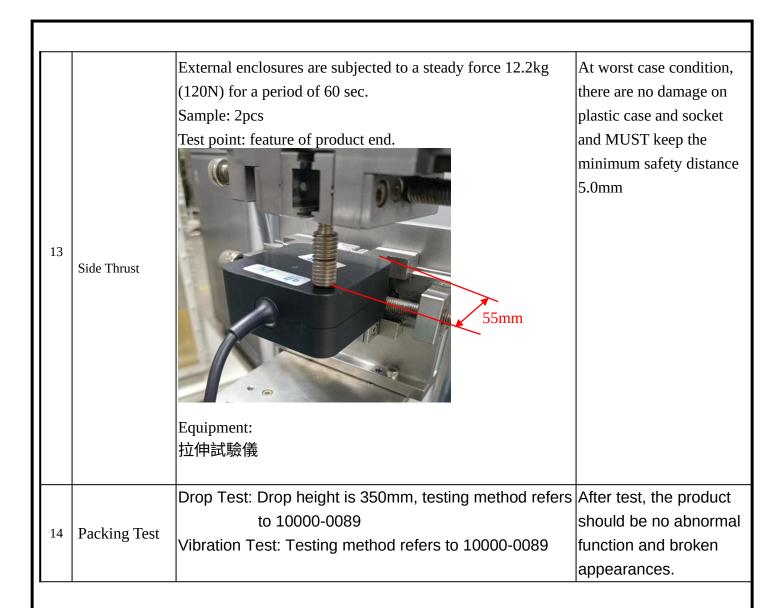
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9	AC Inlet Bending(II)	 Bending angle 30 °for either side. Bending speed 10 times per minute. Must withstand 5 times totally. 	 The blade can't be any crack or damage. This test refers to JIS C8303 requirement.
		Equipment:	
		Arm controller: Delta. Blade SAMPLE SAMPLE	
10	Push Force	Push one side blade to touch another side. The force must over 4.08kgf. Equipment: Push-Pull force measurement controller (50kgf) AC Blade Push scale SAMPLE	No electrical or mechanical problem happened and no abnormity found in the shape.

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11	Load Weight	A static load 351b (15.9kg) / 2min for both pin to downside. Equipment: Load weight controller: Delta.	No electrical or mechanical problem happened and no abnormity found in the shape.
12	Push Blade	Push both pin to inside that must withstand 20kgf / 1 min. Equipment: Push-pull force measurement controller (50kgf) Push force Blade SAMPLE	No electrical or mechanical problem happened and no abnormity found in the shape

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Product Applications: Notebook

Product Ingress protection(IP) rating: Not requirement

