REV.	Description	Date
S00	102A-199075 增加 ADP-65DW Y2G 與 ADP-65DW Y2E 做成系列	09/19'19
S01	102A-19A015 ADD ADP-65DW X2E/X2G/Z2E/Z2G MODEL NAME	10/03'19
00	102A-208075 ADD ADP-65DW ZZD MODEL NAME MODIFY ITEM3.2/3.3/3.4 FOR 65DW ZZD 102A-208053 ADD ADP-65DW X2L /Y2L/Z2L/ X2M/Y2M/Z2M/MODEL NAME Release mass production spec	08/17'20
01	102A-215078 ADD MODEL ADP-65DW X2R/Y2R/Z2R	05/27'21
02	102A-21A225 ADD MODEL ADP-65DW EBA/ZBA/WBA/YCA	10/28°21
03	102A-21C116 ADD MODEL ADP-65DW EBAEA/EBAEB/EBAEC/ EBAED/EBAEE	12/17'21
04	102A-225021 ADD MODEL ADP-65DW EBAEF	05/10°22
05	102A-225145 ADD MODEL ADP-65DW Y2S,Y2T,X2S,X2T,Z2S,Z2T	05/19'22
06	102A-232059 ADD MODEL NAME: ADP-65DW X2E5/X2L5/Y2E5/Y2L5 Add Model list and Item3 (3.2) (3.5) for new model.	02/14'23
07	102A-244019 ADD MODEL ADP-65DW ZBB 102A-244020 ADD MODEL ADP-65DW ZBC	04/08*24

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DESCRIPTION :	

電氣規格(Electrical Specification)

ADP-65DW X2X

	DOCUMENT NAME.	REV.
/	DOCUMENT NAME.: ES-65DW X2X	07
		07

SHEET <u>1</u> OF <u>15</u> Frame Name: DF-PSLA4V-2R01.DOC

MODEL LIST

MODEL NAME	TYPE
ADP-65DW	US
Y2E/Y2G/Y2L/Y2M/Y2R/YCA/Y2S/Y2T/Y2E5/Y2L5	
ADP-65DW X2E/X2G/X2L/X2M/X2R/X2S/X2T/	CN
X2E5/ X2L5	
ADP-65DW	EU
Z2E/Z2G/Z2L/Z2M/ZZD/Z2R/ZBA/Z2S/Z2T/ZBB/ZBC	
ADP-65DW EBA/EBAEA/EBAEB/EBAEC/	AU
EBAED/EBAEE/EBAEF	
ADP-65DW WBA	UK

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 $90 \sim 264 \text{Vac}$.

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 Input Current

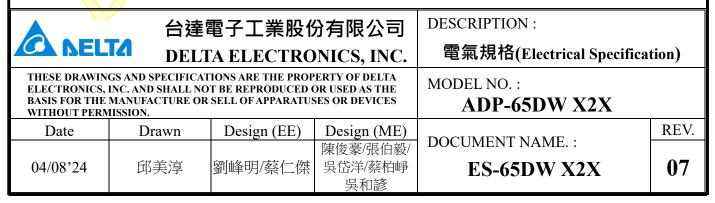
1.5A Max at 100Vac input voltage.

1.1.6 Inrush Current Limit (cold start)

The I²t shall less then 22% of the Fuse.

1.1.7 Efficiency (Warm Up)

1.1.7.1 86.0 % min. at nominal input voltage, maximum load and measured at the end of DC cable. (Warm up)



Frame Name: DF-PSLA4V-2R01.DOC SHEET <u>2</u> OF <u>15</u>

1.1.7.2 Active mode efficiency:

More than 88% of average efficiency of 25%,50%,75% and 100% load tested at 115Vac/60Hz and 230Vac/50Hz.(Warm up after 30min)

1.1.7.3 The efficiency at 10% loading shall be more than 79% measure at 115Vac/60Hz and 230Vac/50Hz.

1.1.8 No Load Power Consumption

Maximum non-load power consumption is less than 0.21W at 115Vac/60Hz and 230Vac/50Hz

1.1.9 <u>Power saving requirement</u>

115Vac/60Hz, 230Vac/50Hz.

DC POWER(W)	AC Spec. Power (W)
18.0	<21
11.0	<14
3	<5
1.65	<3
1.5	<2.2
1	<1.6
0.25	< 0.45

1.2 Output Characteristics:

1.2.1 Rated Voltage

The rated output voltage is specified at 19V.

1.2.2 Voltage Range

The output voltage will be performed 18.5V~20.5V when the load is 0A~3.42A steadily.

1.2.3 Current

This Adapter can work from **0** A to **3.42** A and output voltage is in section 1.2.2 specified range.

1.2.4 Output Ripple and Noise

Output ripple voltage is 300 mV peak to peak. AMB: 25deg-C

Measured methods:

- T1. Performed by 20M Hz bandwidth in oscilloscope.
- T2. Applied 0.1 uF high frequency capacitor and 10 uF electrolytic capacitor across output connector terminals.

T3. Measured at the end of DC cable.

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Frame Name: DF-PSLA4V-2R01.DOC SHEET <u>3</u> OF <u>15</u>

T4. 47Hz and 63Hz tested at 90Vac and 264Vac.

1.2.5 <u>Turn On delay time</u>

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

1.2.6 Hold –up time

The output voltage shall be sustained 5mS within regulation requirement after loss 100Vac and maximum load.

1.2.7 Rise time

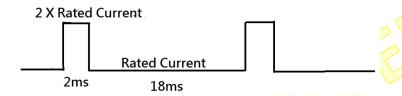
DC output rise time from 10% to 90% of output voltage shall be less than **40mS** at nominal lineand maximum load.

1.2.8 Overshoot

The output overshoot at turn on shall not exceed 5% of normal voltage value with or without the load connected.

1.2.9 Peak load

The adapter shall support below loading condition without and damage, safety issues and protection happen. The output voltage shall more than 17V at input voltage is 100-240Vac/50Hz in 25°C.

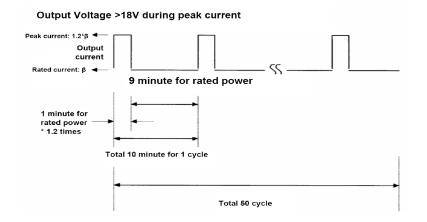


1.2.10 Surge load:

The adapter shall support a surge load with 120% of maximum load for 1min, maximum load for 9min and Output Voltage more than 18.0V at input voltage is 100-240Vac in 25°C.

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Date	Drawn	Design (EE)	Design (ME)	DOCUMENTAL ME	REV.
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Frame Name: DF-PSLA4V-2R01.DOC SHEET 4 OF 15



1.2.11 <u>Load transient response</u>

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 and 100KHz in 25°C.

The output voltage will be performed 18.05V~20.5VV.

1.2.12 Protection

1.2.12.1 Over Voltage Protection

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

That might be return to normal state by AC reset.

1.2.12.2 Over Current Protection

The maximum constant current shall be more than **4.1A** and be less than **5.4A** at 90Vac and 264Vac. The adaptor shall be auto-recovery.

1.2.12.3 Short Circuit protection

Output can be shorted without damage. The adaptor shall be auto-recovery. (It will enter into normal condition when the fault condition is removed.)

1.2.12.4 Over Temperature Protection

No deformation and no discoloration on case and will be shut down. That will be return to normal state by ac reset.

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Date	Drawn	Design (EE)	Design (ME)	DOCUMENTAL ME	REV.
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2 Environmental

2.1 Temperature

2.1.1 Operating

The AC Adapter shall be capable of operating at full load with an ambient temperature range of 0°Cto +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 Humidity

2.2.1 Operating

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

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 Immunity

2.3.1 <u>Lightning Surge Immunity</u>

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

L-N +-1KV/1.2 * 50uS 5 times No function error.

L-FG, N-FG +-2KV/1.2 * 50uS 5 times No damage

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 Electrostatic Discharge (ESD)

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 Surface Temperature rise

Ambient 25°C; input voltage 100Vac/240Vac case temperature rise ≤ 40°C with system loading (95%) on bakelite

2.6 Dielectric Withstand Voltage (HI – POT)

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 3mA.

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Date	Drawn	Design (EE)	Design (ME)	DOCUMENT NAME	REV.
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Frame Name: DF-PSLA4V-2R01.DOC SHEET <u>6</u> OF <u>15</u>

2.7 Leakage Current

Y cap no more than 220pF.

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

2.8 Insulation Resistance

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 13140 hours in Full load at 25°Cat 100Vac/60Hz and 240Vac/50Hz.

2.11 Acoustic test

Input Condition: Vin: 90Vac / 264Vac

Load Condition: Dynamic Load follower ASUS Spec Static Load (from 0A to Full Load, 0.1A pre step)

NB ADAPTER SPEC:

Static Load

WM Type: Microphone at a distance of 10cm 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

3. Mechanical

- 3.1 Outline Dimension: 63.0 * 63.0 * 28.5 mm, Color: Black
- 3.2 US_PIN: ADP-65DW Y2E/Y2G/Y2L/Y2M/Y2R/YCA/Y2S/Y2T/Y2E5/Y2L5

CN PIN: ADP-65DW X2E/X2G/X2L/X2M/X2R/X2S/X2T/X2E5/X2L5



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MODEL NO.:

ADP-65DW X2X

DOCUMENT NAME.:

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ES-65DW X2X

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REV.

Frame Name: DF-PSLA4V-2R01.DOC SHEET __7_ OF __15_

EU PIN: ADP-65DW Z2E/Z2G/Z2L/Z2M/ZZD/Z2R/ZBA/Z2S/Z2T/ZBB/ZBC

UK PIN: ADP-65DW WBA AU PIN: ADP-65DW EBA

3.3 DC Cable Length: 2000 mm for all model, except ADP-65DW ZZD/ZBB/ZBC

DC Cable Length: 1800 mm for ADP-65DW ZZD/ZBB/ZBC

AD Cable Length: 2300 mm for ADP-65DW YCA/ZBA/WBA/EBA

3.4 DC Cable Type: UL1571 20AWG for all model, except ADP-65DW ZZD

DC Cable Type: UL1571 #18AWG for ADP-65DW ZZD/YCA/ZBA/WBA/EBA

DC Cable Type: UL11352 #18AWG for ADP-65DW ZBB/ZBC

DC Connector Dimension: 3.5

	Item				
Model Name	Outside Dimension (-)	Inside Dimension (+)	ID Pin	Length	
ADP-65DW Y2E/X2E/Z2E/Y2L/X2L/Z2L/X2E/X2E5/X2L5 /Y2E5/Y2L5	5.5	2.5	NA	11.0	
ADP-65DW Y2G/X2G/Z2G/Y2M/X2M/Z2M/X2S/Y2S/Z2S /ZBB	4.0	1.2	NA	9.8	
ADP-65DW YZ/ZZ/DZ/EZ/EZA/YCA/ZBA /WBA/EBA	2pin jack: CHENGSHUO 2PJ-005B			B	
ADP-65DW X2R/Y2R/Z2R/X2T/Y2T/Z2T/ZBB	4.5	2.9	0.6	10.0	
ADP-65DW ZBC	4.0	1.7	N/A	11.0	

Adapter Weight: US/CN: 169.5g ±2.5% 3.6

EU: 178.1g ±2.5%

UK: TBD

AU: 205g ±2.5%

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DESCRIPTION:

電氣規格(Electrical Specification)

MODEL NO.:

ADP-65DW X2X

REV. **DOCUMENT NAME.: 07 ES-65DW X2X**

Frame Name: DF-PSLA4V-2R01.DOC

SHEET <u>8</u> OF <u>15</u>

M	Mechanical characteristics				
	Item	Conditions	Specification		
1.	Cord flexibility test (Delta spec)	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. 1. Weight: $200g$ 2. Swing angle (θ): $0 \sim 180^{\circ}$ 3. Cycles: $1000,3000,10000$ cycles 4. Speed: 40 cycles/min. 5. Compliance: plug SR, case SR.	Disconnection rate of the wire shall be 1000 cycles –less 10% 3000 cycles – less 20% 10000 cycles – less 100% without damage to the insulations, etc		
2.	Cord flexibility test (Customer Spec.)	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. (If the cable is without core don't need core SR test) 1. Weight: 200g 2. Swing angle (θ): 90° 3. Cycles: 3000 cycles 4. Speed: 40 cycles/min. 5. Compliance: plug SR, case SR.	Disconnection rate of the wire shall be 30% or less for plug SR, core SR and 10% or less for case SR, without damage to the insulations, etc		

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DESCRIPTION:

電氣規格(Electrical Specification)

MODEL NO.:

ADP-65DW X2X

DOCUMENT NAME.: ES-65DW X2X

07

REV.

Frame Name: DF-PSLA4V-2R01.DOC

SHEET <u>9</u> OF <u>15</u>

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

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MODEL NO.:

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Frame Name: DF-PSLA4V-2R01.DOC SHEET 10 OF 15

	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. Low height drop Drop TIMES: 130 times for every surface (six side), 780 times in total. Test surface material: The concrete Drop height: 10cm Equipment: Concrete 	 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 Hazardous Voltage of the product. 	

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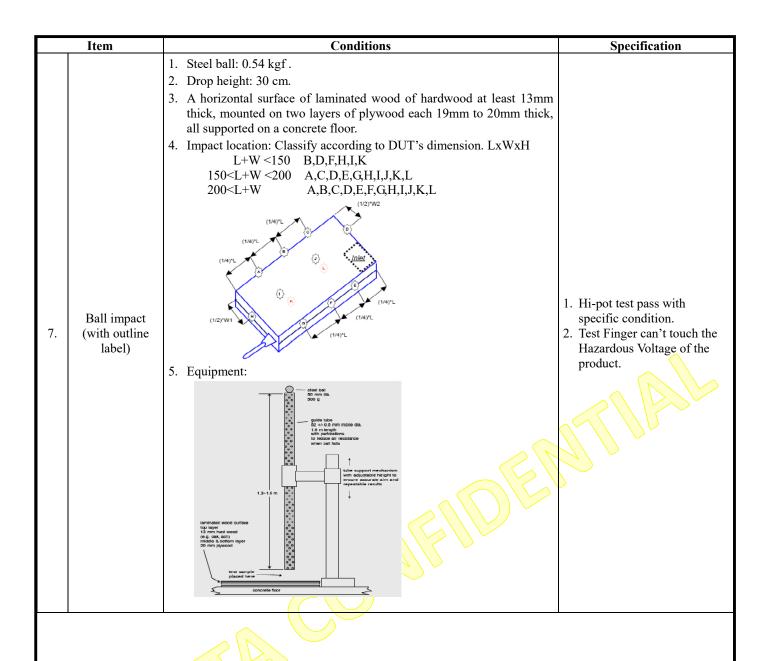
MODEL NO.:

ADP-65DW X2X

REV. DOCUMENT NAME.: 07 ES-65DW X2X

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DOCUMENT NAME.:

ES-65DW X2X

REV.

07

Frame Name: DF-PSLA4V-2R01.DOC SHEET 12 OF 15

Item		Conditions	Specification
8.	AC Inlet Bending(I)	1. Bending angle 15 °for either side. 2. Bending speed 10 times per minute. 3. Must withstand 30 times totally. Equipment: Arm controller: Delta.	 The blade can't be any crack or damage. This test refers to JIS C8303 requirement.
9.	AC Inlet Bending(II)	1. Bending angle 30 °for either side. 2. Bending speed 10 times per minute. 3. Must withstand 5 times totally. Equipment: Arm controller: Delta.	1. The blade can't be any crack or damage. 2. This test refers to JIS C8303 requirement.



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DESCRIPTION:

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MODEL NO.:

ADP-65DW X2X

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DOCUMENT NAME. :		
ES-65DW X2X	07	

Frame Name: DF-PSLA4V-2R01.DOC SHEET 13 OF 15

Item		Conditions	Specification
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.
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 Push force	No electrical or mechanical problem happened and no abnormity found in the shape
13.	Side Thrust	External enclosures are subjected to a steady force 250N±10N for a period of 5 sec. Sample: 2pcs Test point: feature of product end. Equipment: Push-Pull force measurement controller (0~50kgf).	At worst case condition, there are no damage on plastic case and socket and MUST keep the minimum safety distance 5.0mm
	AFITA	台達電子工業股份有限公司 DESCRIPTION	<u> </u>

	台達	台達電子工業股份有限公司		DESCRIPTION:	
C VEL	TA	DELTA ELECTRONICS, INC.		電氣規格(Electrical Specification)	
ELECTRONICS, BASIS FOR THE	HESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DELTA LECTRONICS, INC. AND SHALL NOT BE REPRODUCED OR USED AS THE ASIS FOR THE MANUFACTURE OR SELL OF APPARATUSES OR DEVICES WITHOUT PERMISSION.		MODEL NO. : ADP-65DW X2X		
Date	Drawn	Design (EE)	Design (ME)	DOCUMENTAL ME	REV.
04/08'24	邱美淳	劉峰明/蔡仁傑	陳俊豪/張伯毅/ 吳岱洋/蔡柏崢 吳和諺	DOCUMENT NAME.: ES-65DW X2X	07

Frame Name: DF-PSLA4V-2R01.DOC SHEET 14 OF 15

Product Applications: Notebook Product Ingress protection(IP) rating: Not requirement(IP00) **DESCRIPTION:** 台達電子工業股份有限公司 電氣規格(Electrical Specification) **DELTA ELECTRONICS, INC.** 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-65DW X2X WITHOUT PERMISSION. REV. Design (EE) Date Drawn Design (ME) DOCUMENT NAME.: 陳俊豪/張伯毅/

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