MODEL LIST:

ADP-15WH AA/AB/AAA/AAB/AAC/AS/ASA/ASB/ASC

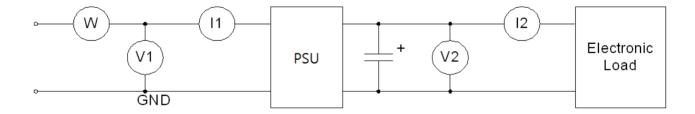
1. Specifications

1.1 Environmental Characteristics

	Item	Conditions	Specification
1		Operating: The Adapter is capable to operate from 0 to 40°C .	0 to 40°C
2		Non- Operating: The Adapter is capable to be stored from -20 to 60° C.	−20 to 60°C
3		Operating: The Adapter is capable to operate from 10 to 90% RH.	10 to 90% RH
4	Humidity	Non- Operating: The Adapter is capable to be stored from 10 to 90% RH (non-condensing)	10 to 90% RH

1.2 Electrical Characteristics

Applied 10uF/10V & 104pF capacitor across output connector terminals.



	Item	Conditions	Specification
1	Rated input voltage		100 ~ 240 Va.c.
2	Rated frequency		50Hz or 60Hz
3	Input Voltage Range		90 ~ 276 Vac
4	Frequency Range		47Hz ~ 63Hz
5	Rated load output		5.1V / 2.8A
6	Max. load current	Input voltage: 90Vac~276Vac , Output current: 2.8A ~3.8A, 10 seconds 2.8A / 1second 3.8A	3.8A d.c.
7	No load output voltage	Input voltage: 90Vac~276Vac , Output current: 0A	5.4V ~ 5.5V
8	Output Voltage	Input voltage: 90Vac~276Vac , Output current: 2.8A (Rated load)	5.1V ~ 5.5V
9	Peak load output voltage	Input voltage: 90Vac~276Vac , Output current: 2.8A ~3.8A, 10 seconds 2.8A / 1second 3.8A	5.0V ~ 5.5V

10	Ripple & Noise voltage	Input voltage: 90Vac~276Vac , Output current: 2.8A (Rated load)	≤ 100mVp-p
11	No load input current		
12	Rated load input Input voltage: 100Vac, Output current: 2.8A (Rated load) current Input voltage: 240Vac, Output current: 2.8A (Rated load) \[\leq \text{276V} \text{ Quantum current: 2.8A (Rated load)} \]		 ≤ 400mA ≤ 350mA ≤ 200mA ≤ 190mA
13	No load power consumption		
14	Rated load power consumption	Input voltage: 90Vac~276Vac , Output current: 2.8A (Rated load)	≤ 20W
15	Short circuit protection	Input voltage: 90Vac~276Vac , Protection mode: Auto recovery	
16	Over current protection	Unnut voltage UNVac. 7/6Vac Protection mode Auto recovery	
17	Over voltage protection		
18	Rated load efficiency	Input voltage: 90Vac~276Vac , Output current:2.8A,	≥75%
19	Average efficiency	ciency Input voltage:115Vac/60Hz ,230Vac/50Hz, average efficiency at 25%, 50%, 75%, and full load. ≥79.3%	
20	20 Surface temperature output current: 2.8A (Full load) $\Delta t=35^{\circ}\text{C}$ Output current: 2.0A (70% full load) $\Delta t=25^{\circ}\text{C}$		

21	Electromagnetic Interference (EMI)	Conducted Emissions: Conform to the "class B" requirement of CISPR 22(EN55022)	<-6dB, after burn in 5minute.
		Radiated Emissions: Conform to the "class B" requirement of CISPR 22(EN55022)	<-6dB
22	Leakage Current	Input voltage: 240 Vac, 60Hz.	< 100uA
23	Insulation resistance	Apply 500V dc for 1min, after which measurement shall be made between the input Plug (or power supply cord) and the dc plug or case	\geq 100M Ω
24	Dielectric strength	Apply 3.64kV ac for 1min (verification), 3.64kV ac for 3sec. (products line), Between input Plug and DC plug.	< 5mA (cut off current)
25	Surge immunity	Input voltage ± 1 KV (L-N) Input voltage ± 2 KV (L-GND and N-GND)	
26	ESD test	After applied ±10kV air discharge and Adapter shall be normally operated. Total 5 shots by an interval of 3 seconds between each shot. After applied ±12kV air discharge and Adapter is no part breakdown. Total 5 shots by an interval of 3 seconds between each shot.	10kV no function error. 12kV no damage.
27	AC noise	Rating input, Rating load Noise voltage:600V(no function error)	
		1000V(no damage)	

1.3 Safety info:

Max. Operating Altitude: 2000M

Safety application

PSE, UCS, CB, CE, KTL-EMC, EESS, BSMI, CCC, Erp Lot 7 4rd.LPS.

2. Mechanical Dimension

2.1 Outline Dimension: 76.0*46.0*22.0 mm, Color: Black

2.2 AC Inlet type: Socket C8 type

2.3 DC Cable :

TYPE: UL 1571 20AWG

LENGTH: 1000 mm

2.4 DC Connector Dimension:

OD= **4.0**mm

ID= **1.7** mm

LENGTH= 9.5 mm

2.5 DC jack: 4017J-1M00:

3. Mechanical characteristics

	Item	Conditions				Specification		
1	Mechanical strength of case	Load 100N by u	oad 100N by using define fixture (\$\phi\$12 plastic head) on case surface					Electrical and mechanical function should meet spec.
2	AC inlet strength	2.100N; 5000ti	.150N push in by suitable plug .100N; 5000times push in & pull out by suitable plug .4 direction 70N load on suitable plug (plug in)					Without damage in appearance on solder
3	Cord flexibility test		Load (N)	Angle(θ)	Short diameter direction	Arbitrary direction (cycle)	Cycles in every minute	Disconnection rate of the wire shall be 30% or
3		Case-d. c.	5	60°		2000	40	less. Without damage to the insulations, etc.
		DC plug	5	60°		2000	40	moutations, etc.

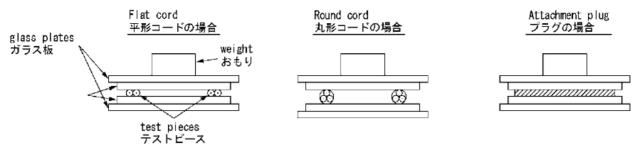
		*See Sheet 14 *See Sheet 14 (Beginning of the string course) (ジャバラの始まり) Stopper 振れ止め Weight おもり	The test sample is hung by specified Weight it shall be bent through angles of specified degrees in one direction. Returned to its original position. Then bent specified degrees in the opposite direction. After which it shall be returned to its original position to complete two cycle. The rate flexing shall be specified cycle per min.	
4	Tensile strength of the cord	D.C. cord A static load of 100 N shall be applie (5 direction)	Excessive load shall not be applied to the contacts and the bushing shall not be detached.	
5	Pressure Strength of the cord 2 Test Report	A cord shall be thrust at 2.5mm point fi Maximum thrush strength shall be 60 N	Excessive load shall not be applied to the contacts and the bushing shall not be detached.	
6	Migration (■ Polystyrene ■ ABS)	This test is applicable to power supply Ambient temperature : $50\pm1^{\circ}$ C Relative humidity: :Not specified Duration : 24 ± 1 h Load : 4.9 ± 0.25 N Refer to Delta General spec.: $10000-00$ Detail show as below page	Visually inspected any staining of the area of the resin that was in contact with the test pieces shall be hardly recognized.	
7	DC plug force	Test on defined jack (EIAJ TYPE-2)	0.3~2.0kgf (center shall around 1kg)	
8	DC plug durable test	Test on defined jack (EIAJ TYPE-2) 5N; 5000times (20 times or / every min	Electrical characteristic shall be satisfied. Click feeling remain	

9	Drop Test (Non-operating test)	Test height: 1 or (A)m for every surface (six sides) Test surface material: vinyl tile or (B) (A): 1.0 m (B): concrete floor	Without distinct damage in appearance. Electrical characteristic shall be satisfied.
10	Package drop and vibration	Follow packaging test spec rev.1 After drop test, continue vibration test Drop test level 2 3 Faces	No function error No abnormal for appearance
11	High temperature storage	Master carton under 60°C 80%RH 96hrs then 25°C 2hrs	Electrical characteristic shall be satisfied.
12	Low temperature storage	Master carton under -20°C / 96hrs then 25°C / 2hrs	Electrical characteristic shall be satisfied.

		Follow STM-1058 8-4 I-B r X,Y,Z each axis 1hr	random vibration			
	Vibration	a a	a. Automobile			
13		Power 10 to 50 Hz spectral density 50 to 125 Hz	{0.043 G²/Hz}	Electrical and mechanical function should meet spec.		
		Overall rms value 14.7	7 m/s² {1.50 G}			
		Test time	1 H			
14	Shock	Peak acceleration: 100G Duration of pulse: 15ms 9 successive shocks shall be (total of 27 shocks).	e applied in X.Y.Z axis each	is each Electrical and mechanical function should meet spec.		
	Adhesion of specification labels	1. Tape peeling test (see n	ext page)			
15		High temperature storage The AC adapter shall be with relative humidity or	There shall be no blistering or peeling of			
13		for 6 to 7 h.	ge red at a temperature of -20 ± 3 °C	the specification label.		
		Detail show as below page		1 10		
16	Ball Impact	Steel ball, weight 0.54kg. Plastic tube, height 130cm(sp	nec)	1. If case has any crack. The golden finger can't touch inside components. 2. Hi- Pot pass. (AC 3300V/1min) 3. Refer to UL 60950		
				regulation, height 130cm		

Migration

Place test pieces between two resin plates. The place two glass plates on them and apply a specified weight. As shown figure below. The assembly shall be stored at a specified temperature for a specified time. Inspect visually any staining of the area of the resin that was in contact with test pieces.



Resin plate

Material: Polystyrene(Hi-Impact)

-Ps Japan Corp.

Diarex HT-88 Natural color (Milk-white)

-Aasahi Kasei Chemicals Corp. AGI 02 Natural color (Milk-white)

:ABS

-Ps Japan Corp.

Acrylonitrile-butadiene-styrene TFX-410E

Natural color (Milk-white)

-Aasahi Kasei Chemicals Corp.

121 Natural color (Milk-white)

Size : $50 \times 50 \pm 10$ $t = 1^{+3.0}_{-0.5} mm$

Finish :The plate, produced 24h or more previously by compression molding or by extrusion. shall

Have a flat surface (mirror surface) and have no scratches or other visible sign of deterioration.

Glass plate approx. $60 \times 60 \times t$ 2mm in dimension

Test piece

Flexible cord: 2 pieces approx. 60 mm in length. removed from the finished cord sets.

Moldings (attachment plug):

One plate from the same material as attachment plug or cord connector. It shall be round in Shape approx. $\psi 50 \times t1$ mm.

Adhesion strength specification label (Tape peeling test)

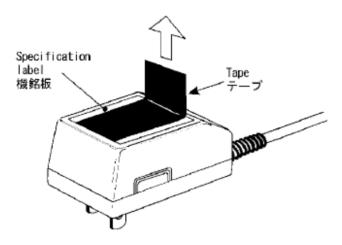
Firmly apply pressure sensitive adhesive tape on the middle of the specification label to the lengthwise direction.

Pull the tape off quickly at a 90° angle to the surface of the label once.

<Specifications>There shall be no blistering or peeling of the specification label.

<Used adhesive tape>NIGHIBAN No. 405(18mm width)

3M No. 610(18mm width)



Product Application: GAME

Product ingress protection (IP) rating: Not requirement