



China Factory: DONGGUAN W & T ELECTRONICS CO.,LTD.
Address: JinQiao Industrial Park, QingXi Town, DongGuan City,GuangDong Province, China
Http: //www.powwt.com
Email: johnson@powwt.com
Tel: 86-0769-86987620
Fax: 86-0769-87292526

Hong Kong Office: W&T (Hong Kong) ELECTRONICS TECHNOLOGY COMPANY LIMITED
Address: NO.304 3/F Man Tai Hse Tsz Man Est Tsz Wan Shan Kowloon, Hongkong
Fax: 852-23521532



User's Manual



www.powwt.com

Laptop Adaptor

- ★ W&T-AD90W-1N
- ★ W&T-AD90W-2N
- ★ W&T-AD90W-1S
- ★ W&T-AD90W-2S



Catalog



Please read this manual first before using product.

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Product Features

- Universal AC to DC / AC and DC to DC W&T design.
- Compatible with most Notebooks
- 7 sections output Voltage selectable
- 5V/1A USB port support for charging digital device.
- Protections: SCP / OVP / OCP/ OTP
- Built-in APFC function.
- Convenience for travel indoor/in car/on Airplane
- Convertible DC plug tips for choice.
- Safety Approval

Specification

Model No/(Purpose)	AD90W-1N (Indoor use)	AD90W-1S (Indoor use)	AD90W-2N(Car/ Airplane/Truck)	AD90W-2S(Car/ Airplane/Truck)			
Input AC Range/Current	100-240VAC / 1.5A Max.						
Input DC Range/Current	Non-DC	Non-DC	11-15VDC / 10A	11-30VDC / 10A			
Output Voltage (Selectable)	15V	16V	18.5V	19V	19.5V	20V	24V
Output Current	5.5A	5.5A	4.86A	4.73A	4.61A	4.5A	3.75A
USB Port Voltage/Current	5V / 1A, Peak 2A						
Over Thermal Protection	YES Output shut down						
Over Voltage protection	YES Output shut down						
Short-Circuit Protection	YES Output shut down						
Over Load Protection	YES Output shut down						
Leakage Current	< 250uA / 240VAC						
MTBF	100K hrs min, MIL-HDBK-217F (25°C)						
Dimension/Weight	143x57.6x30.8mm / 0.3kg						
Operation Temp & Humidity	0 to 35°C / 95%						
Safety Approval	CE / TUV / CUL / FCC / PSE / KC						

Remark: AD90W-XX model without selectable 15-24V DC output.

Output Plug Tips Type

Tips Types	Tips Size	Remark
No1.	4 × 1.5 × 11 mm	
No2.	4.7 × 1.5 × 11 mm	
No3.	5 × 3 × 11 mm	
No4.	5.5 × 1.5 × 12 mm	
No5.	5.5 × 1.9 × 12 mm	
No6.	5.5 × 2.1 × 12 mm	
No7.	6 × 4.2 × 14 mm	
No8.	6 × 2.5 × 14 mm	
OPTIONS 1.	7 × 6 × 13 mm	
OPTIONS 2.	7 × 5 × 13 mm	
OPTIONS 3.	3PIN	

ACER	TravelMate 343 series	COMPAQ/HP	Presario 1070	SONY	VAIO PCG-F400LT
Aspire 1200 1300	TravelMate 345T	Armada 100/100S	Presario 1075	VAIO FX103	VAIO PCG-F590
acerNote 300 series	TravelMate 350 series	Armada 110/110S	Presario 1080	VAIO FX105K	VAIO PCG-F590K
acerNote 350 series	TravelMate 351 series	Armada 2940	Presario 1082	VAIO FX109K	VAIO PCG-F630
acerNote 352 series	TravelMate 360 series	Armada 3100	Presario 1084	VAIO FX120	VAIO PCG-F660
acerNote 355 series	TravelMate 505 series	Armada 4100	Presario 1090	VAIO FX170	VAIO PCG-F670
acerNote 356 series	TravelMate 506 series	Armada 4100/4110T	Presario 1200	VAIO FX190	VAIO PCG-F680
acerNote 358 series	TravelMate 507 series	Armada 4120/4120T	Presario 1200XL	VAIO FX200	VAIO PCG-F690
acerNote 361 series	TravelMate 508 series	Armada 4124D	Presario 1207	VAIO FX270	VAIO PCG-F707
acerNote 370 series	TravelMate 510 series	Armada 4125/4125D	Presario 1250	VAIO FX770K	VAIO PCG-F801A
Lifenote 373	TravelMate 512 series	Armada 4130/4130D	Presario 1060	VAIO FX800	VAIO PCG-FX103
Light 350 series	TravelMate 513 series	Armada 4131/4131D	Presario 1065	VAIO FX800K	VAIO PCG-FX105K
Light 356 series	TravelMate 514 series	Armada 4150/4150D	Presario 1210	VAIO FXA32	VAIO PCG-FX109K
Light 358 series	TravelMate 515 series	Armada 4160/4160T	Presario 1215	VAIO FXA33	VAIO PCG-FX120
Light 370 series	TravelMate 517 series	Armada 4200	Presario 1220	VAIO FXA36	VAIO PCG-FX170
Light 371 series	TravelMate 520 series	Armada 4210/4210T	Presario 1221	VAIO PCG-700 series	VAIO PCG-FX190
Light 372 series	TravelMate 521 series	Armada E300	Presario 1230	VAIO PCG-707	VAIO PCG-FX200
Light 373 series	TravelMate 524 series	Armada E500/E500S	Presario 1232	VAIO PCG-717	VAIO PCG-FX770K
Light 374 series	TravelMate 525 series	Armada E700	Presario 1235	VAIO PCG-719	VAIO PCG-FX800
Light 380 series	TravelMate 600 series	Armada M2453	Presario 1279	VAIO PCG-729	VAIO PCG-FX800K
Light 382 series	TravelMate 602 series	Armada M300	Presario 1280	VAIO PCG-731	VAIO PCG-R505CT
TI Extensa 350 series	TravelMate 603 series	Armada M4500	Presario 1400	VAIO PCG-735	VAIO PCG-R506CTIS
TI Extensa 355 series	TravelMate 630 series	Armada M7000	Presario 1400T	VAIO PCG-748	VAIO PCG-R507D
TI Extensa 360 series	TravelMate 720 series	Armada V300	Presario 1450	VAIO PCG-800 series	VAIO PCG-R508TE
TI Extensa 365 series	TravelMate 721 series	Armada 600 series	Presario 1600I	VAIO PCG-808	VAIO PCG-F5091EK
TI Extensa 366 series	TravelMate 722 series	Armada 800 series	Presario 1600S series	VAIO PCG-812	VAIO PCG-R510TS
TI Extensa 367 series	TravelMate 723 series	Contura 386/486 series	Presario 1610	VAIO PCG-818	VAIO PCG-XE17
TI Extensa 368 series	TravelMate 730 series	Contura 400C	Presario 1611	VAIO PCG-838	VAIO PCG-XG series
TI Extensa 390 series	TravelMate 732 series	Contura 400CX	Presario 1236	VAIO PCG-F150	VAIO PCG-XG18
TI Extensa 391 series	TravelMate 734 series	Contura 410C	Presario 1237	VAIO PCG-F160	VAIO PCG-XG19
TI Extensa 392 series	TravelMate 735 series	Contura 410CX	Presario 1240	VAIO PCG-F180	VAIO PCG-XG28
TI Extensa 393 series	TravelMate 736 series	Contura 420C	Presario 1244	VAIO PCG-F190	VAIO PCG-XG28K
TI Extensa 394 series	TravelMate 737 series	Contura 420CX	Presario 1245	VAIO PCG-F250	VAIO PCG-XG38
TI Extensa 395 series	TravelMate 738 series	Contura 430C	Presario 1247	VAIO PCG-F270	VAIO PCG-XG39
TI Extensa 500 series	TravelMate 739 series	Contura 430CX	Presario 1250	VAIO PCG-F280	VAIO PCG-XG39K
TI Extensa 501 series	TF6720, TF6760, F18650	Contura 3120	Presario 1255	VAIO PCG-F290	VAIO PCG-XG9
TI Extensa 502 series	W1 series	Contura 3/25	Presario 1256	VAIO PCG-F340	VAIO PCG-Z505
TI Extensa 503 series	W2 series	Contura 3/25C	Presario 1260	VAIO PCG-F350	VAIO PCG-Z505FA
TI Extensa 505 series	W3 series	Contura 4/20	Presario 1262	VAIO PCG-F360	VAIO PCG-Z505GA
TI Extensa 550 series	W5 series	Contura 4/25	Presario 1266	VAIO PCG-F370	VAIO PCG-Z505GAH
TI Extensa 600 series	W6 series	Contura 4/25C	Presario 1267	VAIO PCG-F390	VAIO PCG-Z505GAM
TI Extensa 900 series	A2 series	Contura 4/25CX	Presario 1270		
TravelMate 200 series	A3 series	Evo N105	Presario 1272		
TravelMate 201 series	A4 series	Evo N115	Presario 1273	DELL	MEDION
TravelMate 202 series	A5 series	Evo N150 series	Presario 1274	Inspiron 300m	MD5050
TravelMate 210 series	A6 series	Evo N160	Presario 1275	Inspiron 500m	MD5061
TravelMate 212 series	A7 series	Evo N180	Presario 1277	Inspiron 600m	MD5214
TravelMate 220 series	A8 series	Evo N400C	Presario 1278	Inspiron 700m	MD5222
TravelMate 270 series	A8 series	Presario 700	Presario 1278	Inspiron 8000	MD5223
TravelMate 290 series	TravelMate 333 series	Presario 700Z	Presario 1612	Inspiron D400	MD5225
TravelMate 290 series	TravelMate 340 series	Presario 700Z	Presario 1620	Inspiron D500	MD5389
TravelMate 291 series	TravelMate 341 series	Presario 701	Presario 1621	Inspiron D600	MD5396
TravelMate 331 series	TravelMate 342 series	Presario 702	Presario 1622	Inspiron D800	MD5400
TravelMate 332 series		Presario 703	Presario 1625	Inspiron 1150	MD5498
		Presario 704	Presario 1626	Inspiron 8500	MD5499
		Presario 705	Presario 1630	Inspiron 8600	MD5943
ASUS	BENQ	Presario 705US	Presario 1640	Inspiron 9200	MD5941
A1000 series	JOYBOOK5100-133U	Presario 706	Presario 1645	Inspiron D404	MD5944
Artbook L7336	JOYBOOK5100-126	Presario 710	Presario 1650	Inspiron D405	MD5945
B1000 series	JOYBOOK R53-T21	Presario 711	Presario 1655	Inspiron D406	MD5946
F7400	JOYBOOK5 S72	Presario 712	Presario 1670	Precision M20	MD6001
L1000B series	JOYBOOK5 8100-120	Presario 713	Presario 1675	Inspiron S150	MD6200
L2001B series	JOYBOOK5 7000	Presario 714	Presario 1680	Inspiron S160	MD7321
L2002D series	JOYBOOK S61	Presario 715	Presario 1681		
L2003E series	JOYBOOK S53	Presario 716	Presario 1682	HITACHI	IMBLENOVE
L3004C series	JOYBOOK S52	Presario 717	Presario 1685	E-100	ThinkPad T60
L3005S series	JOYBOOK 6000	Presario 718	Presario 1687	E-100D	ThinkPad X60
L7233	JOYBOOK S73	Presario 719	Presario 1688	E-100DC	ThinkPad R60
L7300	JOYBOOK A32	Presario 720	Presario 1690	E-100DN	ThinkPad Z60 series
L8400	JOYBOOK R31	Presario 721	Presario 1692	E-133	ThinkPad 44X
M1000 series	JOYBOOK 2100	Presario 722	Presario 1693	E-133D	ThinkPad 3000
M2000 series	JOYBOOK R22	Presario 723	Presario 1694	E-133DC	ThinkPad 1706-XXX
M2 series, M2400		Presario 724	Presario 1700 series	E-133DN	ThinkPad 1707-XXX
MP 8xxx series		Presario 725	Presario 1710	E-133T	ThinkPad X60S
		Presario 900	Presario 1800 series	E-133C	ThinkPad Z60S
YOSHIBA		Presario 800XL	Presario 1801 series	E-133DC	ThinkPad Z506-XXX
Statllite 1000	S1000 series	Presario 1000	Presario 1810	E-133D	LENOVO series Z60M
Statllite 1005	T4700CS	Presario 1000/1100	Presario 1820	MX133T	LENOVO series Z60T
Statllite 1200	T9000 series	Presario 1020	Presario 1825	MX150T	LENOVO series 3000
Statllite 1605	W2V00VC	Presario 1030	Presario 1827	MX166T	LENOVO series C100
Statllite 1625	A3500 A35C7PDR	Presario 1040	Presario 1830	VERSA	LENOVO series N100
Statllite 1675	M900			S940	LENOVO series V100
Statllite 1695	M6000 M6Q-740D	TWINHEAD	MSI		
Statllite 1715 series	M5400	F12D	MEGABOOK300		
Statllite 1730	M2400	10D	MEGABOOK M620-C0ZS		
Statllite 1735	W6000	12K	S250		
Statllite 1750	W5000		GX400		
Statllite 3000	W3000				
Statllite 3005	A6000 A6Q740DD				

Suited for all of the new model.

Suited for all of the new Netbook.

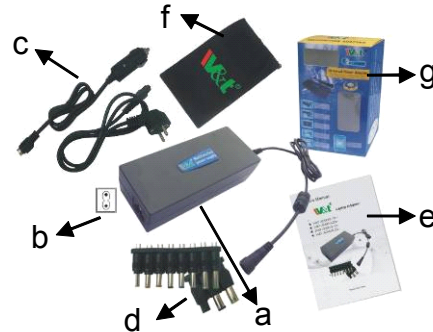
Products Accessories

a. Universal Laptop adaptor.

Notes:

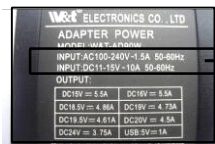
- ★ Universal AC to DC W&T design
 1. AD90W-1N(Indoor use)
 2. AD90W-1S(Indoor use)
- ★ Universal AC to DC W&T design
 1. AD90W-2N (Car/Airplane/Truck)
 2. AD90W-2S (Car/Airplane/Truck)

- b. AC Input cable with plug.(3 pin、C8)
 c. DC Input cable for Car/Airplane use.
 d. DC output plug with 6 tips.
 e. User Manual.
 f. Travel Bag.
 g. Colour box(optional)



Operating Steps

- a. Before using please read this user manual.
 b. To check your laptop brand (model)name and DC input Voltage. Please check the bottom of your laptop and see the label as below



INPUT:AC100-240V~1.5A 50-60Hz
 INPUT:DC11-15V~10A 50-60Hz

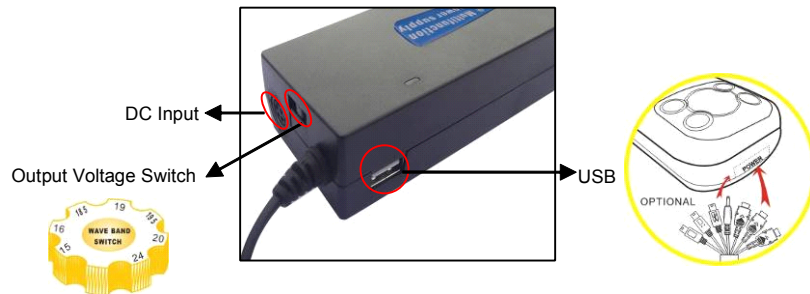
Or check your original adaptor label as below:



OUTPUT:+19V~4.73A,90W

c. When you read the voltage, please select the exact same voltage from the voltage switch as below:

Laptop Brands Voltage VDC Tips type



English

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d. Using the output jack plug which match with your laptop, try fitting the whole jack plug into the power port on your laptop.You can try any plug that match to find the right fit for your laptop. or use the reference table below:

Laptop Brands	Voltage VDC	Tips type
Acer / Gateway	16 / 18 / 19 / 20V	d, c
ASUS	19V	e
DELL	19 / 20V	a, c, f, g
IBM	16 / 19V	c, d
HP / COMPAQ	15 / 18 / 19V	b, c, d, e
SONY	16 / 19V	a, c
TOSHIBA/NEC	15 / 19V	b, c, d
FUJITSU/PANASONIC	16 / 19V	a, c, d

- e. When you have the right jack plug for your laptop, then plug in the AC cable into the AC inlet or DC inlet, you will see the LED lights up on the adaptor. You should notice the charge LED on your Laptop signaling that your product is charging.
 f. If you don't have any success from following our instructions, please contact the sales representative near you, or the local distributor to assist you.
 g. Important safety warning: When connecting to a vehicle's power port, DO NOT run your vehicle's engine in an enclosed area ever as the fumes from the exhaust of a vehicle are considered toxic and dangerous. Please don't plug in the DC cable into the car cigarette port or to the battery before starting your engine. If you do that, it may cause severe damage of your adaptor or laptop and even to peripherals connecting via the USB device. As an extra caution, beware of adapter cable entanglement which could disrupt your driving capabilities.
 h. When connecting to an airplane's power port, please make sure that your laptop's requirement of power is correctly aligned with the charger. If your laptop requires 75Watts of power,it may not work on board,please check with the flight crew.
 i. When charge a USB compatible device, you will need to acquire a USB cable to connect between this adaptor and your mobile device. the USB port offer 5V/1A (peak 2A). If your device draws more power, the adaptor will be over load protection.

Safety Approval



Warning

- Please do not plug into AC inlet before reading these instructions.
- Please keep adaptor away from children. Make sure that all persons follow these instruct before using the device .
- Never attempt to use this adaptor to power any device that requires more than 100W of power.
- When operating this adaptor that adaptor may become hot! Keep it well-ventilated .while in use,Maintain and keep clear at least 3cm around the top and sides of the adaptor.

English

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