

Slim AC090N Series
Laptop Adaptor



GlacialTech[®]
Enlighten Your Humanity

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17-AC090NS0001

Product Features

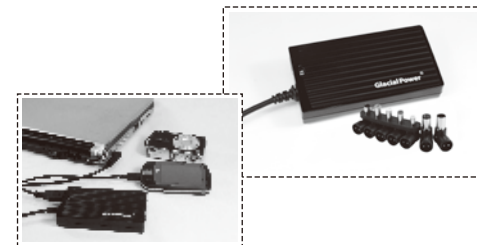
- Slim & portable
- Compatible with most of the laptops
- 8-level output voltage selectable for your laptop
- 5V/1A USB port to charge 3C devices
- Protections: SCP/OVP/OCP/OTP
- Power efficiency > 88%
- Convertible DC plug guidelines for choice
- RoHS compliance and 2 years warranty
- Maximum peak output power 90W

Specifications

Model No / (Purpose)	AC090N-0S (Indoor use)							
AC Input Voltage/Current/ Frequency	100-240VAC / 1.5A max. / 47-63Hz							
DC Input Voltage/Current	Non DC Input							
DC Output Voltage (Selectable)	12V	15V	16V	18.5V	19V	19.5V	20V	24V
DC Output Current	4.5A	4.33A	4.06A	3.51A	3.42A	3.33A	3.25A	2.71A
USB Port voltage/Current	5V / 1A							
Over Voltage Protection	Whenever the DC output voltage exceeds its 105~110%, the DC output will shut down automatically.							
Over Current Protection	Whenever the DC output current exceeds its 110~130%, the DC output will shut down automatically.							
Over Temperature Protection	Whenever its internal temperature exceeds 85°C, the DC output will shut down automatically.							
Short Circuit Protection	Whenever its DC output port is short-circuited, the DC output will shut down automatically.							
Dimension	104.2 x 57.3 x 17.1 (mm)							
Weight	0.2kg							
Operation Temperature/ Humidity	0 to 40°C / 5~95%							
Safety Approvals	CE / TUV / CUL / FCC / C-Tick / Gost							

Product Accessories

- a. An AC input power cord having a 2-pin plug
- b. A set of DC output plugs available to convert DC connectors
- c. A users' manual.
- d. A cable tie



DC Output Plug Set

Type	Size	Supports	Remark
A	4.75x1.7x9.5 mm	Acer,Asus,Clevo,Compaq,HP	
B	5.5x2.1x12 mm	Acer,Compaq,Gateway,Hitachi,IBM,NEC,Sharp, Toshiba,Twinhead	
C	5.5x2.5x12 mm	Acer,Asus,Clevo,Compaq,Fujitsu,Gateway,Hitachi,HP, IBM,NEC,Panasonic,Samsung,Sharp,Toshiba,Dell,Epson	
D	6.3x3.0x12 mm	Acer,Asus,Compaq,HP,Toshiba	
E	6.5x1.4x9.5 mm	Sony,Panasonic,Samsung,Fujitsu	
G	7.9xP0.9x12 mm	Dell	
H	7.4x5.1x0.6x12 mm	HP	
I	7.4x5.1x0.6x12 mm+IC	Dell	Optional
J	5.5x1.7x12 mm	Acer	Optional

Operating steps

- a. Please read carefully this users' manual before using this adapter.
- b. To identify your laptop's DC input voltage, please read carefully the specifications set forth by a label at your laptop's bottom as follows:



Laptop brand (model) name

or a label at your original adaptor's bottom as follows:



DC INPUT

- c. Please toggle the slide switch to equalize this adaptor's DC output voltage and your laptop's DC input voltage.
- d. To pick out a DC output plug that fits your laptop's power port, please cross-refer to the above table and the below table according to your laptop's brand name.

Brand name	DC Input Voltage	DC Output Plug Type
Acer/Gateway	16/18/19/20V	A/B/C/D/J
ASUS	19V	A/C/D
DELL	19/20V	C/G/I
Lenovo / IBM	16/19V	B/C
HP/COMPAQ	15/18/19V	A/B/C/D/H
SONY	16/19V	E
TOSHIBA/NEC	15/19V	B/C/D
FUJITSU/PANASONIC	16/19V	C/E

- e. If your laptop's brand name is not listed in the two tables, please try to match one by one all the DC output plugs with your laptop's power port.
- f. If no DC output plug fits your laptop's power port, please contact your local distributors for further assistance.
- g. If you find the DC output plug that fits your laptop's power port, please connect this adapter to the AC voltage source designated by the product specifications and your laptop.
- h. Please turn on that AC voltage source to check whether both this adapter and your laptop can work normally.
- i. If not, please make sure whether you have correctly followed all the instructions above.
- j. Before using the 5V/1A USB port to charge a 3C device, please prepare an USB wire for this port and that device. The output of this port will shut down automatically after that device is fully charged.

Cautions

- ⊙ This adapter feeds only on an AC voltage source designated by the product specifications.
- ⊙ Misusing an inappropriate voltage source may lead to product damage.
- ⊙ Please do not connect this adapter to that AC voltage source before reading all the instructions above.
- ⊙ Please put this adapter out of the reach of children.
- ⊙ Please do not use this adapter to supply any laptop that consumes more than 65 watts.
- ⊙ Please keep good ventilation for the adapter in use to prevent it from overheating.
- ⊙ For more information, please visit our website at <http://www.glacialpower.com>.

Safety Approvals

