

# User's Manual

# **Laptop Adaptor**

AH065-0S Series AH090-0S Series



### **GlacialTech**® Enlighten Your Humanity

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http://www.GlacialPower.com/

#### **Product Features**

Universal AC input

- Compatible with most of the laptops
- Protections including: OVP/OCP/OTP/SCP
- OC output plug set available to convert DC connectors
- Full output power at 40°C operation temperature
- Power efficiency > 87%
- @ 2 years warranty

#### **Specifications**

Model No / ( Use )	GP-AH065-0S (Indoor use)	GP-AH090-0S (Indoor use)	
AC Input Voltage / Frequency	100-240VAC, 47-63Hz		
DC Output Voltage	19V	19V	
DC Output Current	3.42A	4.74A	
Over Voltage Protection	If an over voltage that is caused by these adaptors' internal faults and will be lower than 29V (GP-AH065-0S) / 27V (GP-AH090-0S) occurs at the output terminals, the DC output will be latched off to protect your laptops from being damaged by the over voltage.		
Over Current Protection	If an over current that is caused by an over load and equal to 4.1A (GP-AH065-0S) / 5.7A (GP-AH090-0S) occurs at the output terminals, the DC output will be latched off to protect these adaptors from being damaged by the over current.		
Over Temperature Protection	If an over temperature that is caused by a slight overload or a poor ventilation occurs inside these adaptors, the DC output will be latched off to protect these adaptors from being damaged by the over temperature.		
Short Circuit Protection	If a short circuit that is caused by an improper operation or a faulty load occurs at the output terminals, the DC output will be latched off to protect these adaptors from being damaged by the short circuit.		
Conversion Efficiency	>87%		
Operation Temperature/Humidity	0~40°C / 8~90%		
DC Output Plug Set	6 Plugs	7 Plugs	
Leakage Current Current/Voltage/Frequency	< 100µA/240VAC/50Hz	< 75µA/254VAC/50Hz	
Mean Time Before Failure Time/Temperature	100khr min./25°C		
Safety Approvals	CE / GS / C-Tick / GOST / DOFT / MEPS / PSE		
Dimension	108×45.5×30.5 mm	132.5×57×30.3 mm	

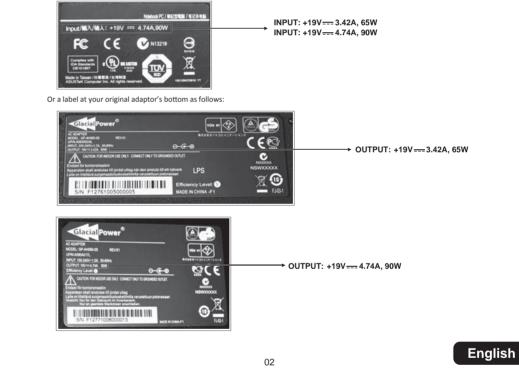
## Output Plug Set

Туре	Plugs Size	Laptop Manufactures	Remark
А	4.75x1.7x9.5 mm	Acer,Asus,Clevo,Compaq,HP	
В	5.5x2.1x12 mm	Acer,Compaq,Gateway,Hitachi,IBM,NEC,Sharp,Toshiba, Twinhead	
с	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	Only For AH-090
н	7.4x5.1x0.6x12 mm	НР	
I	7.4x5.1x0.6x12 mm+IC	Dell	Optional

#### Operating Steps

a. Please read carefully this users' manual before using these adapters.

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:



English

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c. Please confirm your laptop's DC input voltage equals these adaptors' DC output voltage before taking the following operation steps

d. To pick out a DC output plug that fits your laptop's power port, please refer to the above table according to your laptop's brand name.

e. If your laptop's brand name is not listed in the table, 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 these adapters 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 these adapters and your laptop can work normally.

i. If not, please make sure whether you have correctly followed all the instructions above.

#### Safety Approvals



#### Cautions

• These adapters feed 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 these adapters to that AC voltage source before reading all the instructions above.

• Please put these adapters out of the reach of children.

• Please do not use AH065-0S to supply any laptop that consumes more than 65 watts.

• Please do not use AH090-0S to supply any laptop that consumes more than 90 watts.

• Please keep good ventilation for the adapters in use to prevent them from overheating.

• For more information, please visit our website at http://www.glacialpower.com.