



## **1.0 FUNCTION Description**

## **2.0 INPUT AC ADAPTER Description**

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2.2 Output Current

## **3.0 OUTPUT Especially Description**

3.1 Output Current Voltage

3.2 Protect

3.3 Power Transfer Efficiency

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5.1 Input Connector

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## 1.0 Function Description

DC.power2 is the specially design the smallest size device for Personal Computer power supply . Fully fit **INTEL ATX Specification Version 2.1 standard Specification** . Provide over voltage protect , Power Voltage Output protect , short circuit protect and process PS—ON control .Electrical voltage security PGI s Signal Protect .

DC.power2 available provide continues 100W-120W efficiency power output (120W version available provide continues output 120W to 150W efficiency ) . DC Power input , efficiency power AC ADAPTER INPUT and Voltage is 120W to 160W/minmum DC17V to 19V output request .

## 2.0 Input AC ADAPTER specially function description

2.1 Output Voltage : DC17V—DC19V

2.2 Output Current : 17V@7.5Amin 19V@6.5A(120W)  
17V@9.0Amin 19V@8.0A(150W)

## 3.0 Output specially function description

Internal 200KHz Oscillator . Output side fully used with the LOW ESR high Performance efficiency wave fillet capacitor and with the BYPASS CAP0.1UF . rising the Power over loading and deduct the NOISE .

### 3.1 Output Electrical Voltage

Output Voltage	V	+5VSB	+3.3V	+5V	+12V	-12V
Current max	A	2	10.0	12.0	4	0.1

Power Output max	W	10	33	60	48	1.2
Over All Reg	. %	±5%	±4%	±5%	±5%	±10%
Ripple & Noise	mV	50	50	50	120	120

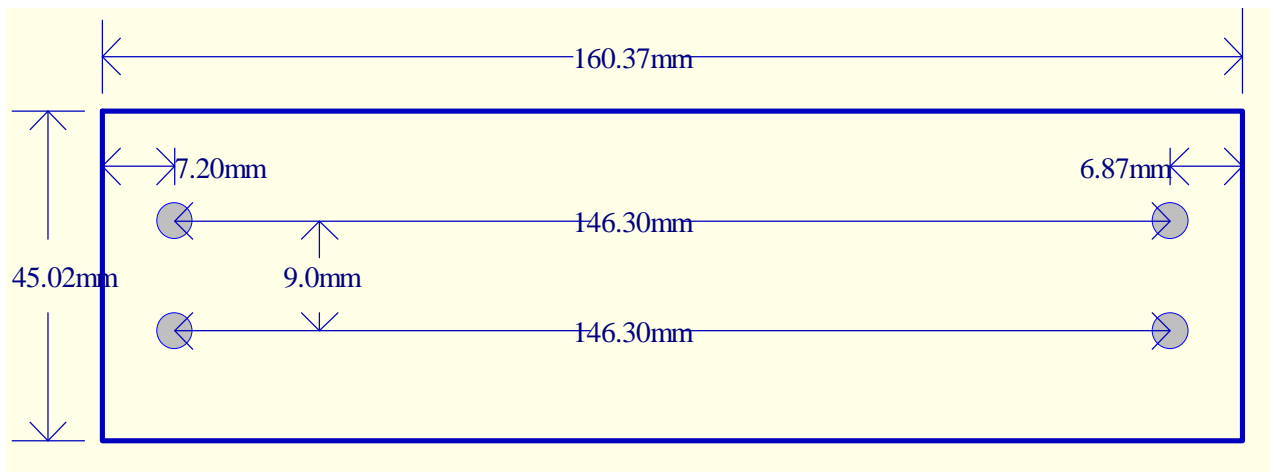
### 3.2 PROTECT

DC—DC.MW120A1INSIDE PWM CHIPSET Provide the excellent the over loading power short circuit over loading , power output , over voltage-protect function . Normally because the +12Voutput side without PWM chipset adjustment , DC—DC.MW120A1 specially design the +12V power output protect . DC—DC.MW80A1h provide the Electrical Voltage protect functions , also provide the far side remote control PS—ON chipset control and system disk testing device control OK signal PG.

**3.3 Overloading:**80%min : 80%min

### 4.0 PCB Description

4.1 PCB Board Dimension : 160.37mm \* 45.02mm \* 23mm



4.2 Installment Hole :  $\phi$  3.50mm

4.3 Installment Dimension Draw

4.4 Weight : 100G

## 5.0 Input/Output Connector description

### 5.1 Input connector : WAFER 3.96mm 1\*2Pin Connector

Pin	Signal
1	GND
2	DC+17V or DC19V

### 5.2 Output Connector : ATX 2\*10Pin Connector

PIN	Signal	PIN	Signal
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	GND	13	GND
4	+5V	14	PS-ON
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	PG	18	NC
9	+5VSB	19	+5V
10	+12V	20	+5V

### 5.3 ATX+12V Connector : WAFER 3.96mm 1\*4Pin Connector

Pin	Signal
1	+12VDC
2	GND
3	GND
4	+12VDC

