



Minwa Electronics Co.,Ltd

® Minwa Green Energy Electronics Co.,Ltd

MW2109GS • AC/DC switching adapter





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1. Input

Input Voltage (V)	100~240Vac
Input Frequency (Hz)	50/60Hz
No load power consumption (W)	<0.3W
Input full load current (at 120 Vac)	1A
Input power	58W Max.

2. Output

Light load output voltage	9.5/12/14/16/18.5/19/20 V dc \pm 10%
Full load output voltage	9.5/12/14/16/18.5/19/20 V dc \pm 10%
Min load output current	0A
Max load output current	3.0A@9.5/12/14/16V dc; 2.5A@18.5/19V dc; 2.4A@20V dc
Line regulation	0.5 % Input 90 to 254 Vac output loaded at full load
Setup, rise, hold uptime	200ms, 30ms, 17ms/115Vac; 200ms, 20ms, 80ms/230Vac

3. Overall performance

Total output power	48W Max
Efficiency	COMPLIED with EUP

4. Protection

- | | |
|---|--|
| <input checked="" type="checkbox"/> Over current protection | <input checked="" type="checkbox"/> Short circuit protection |
| <input checked="" type="checkbox"/> Over voltage protection | <input type="checkbox"/> L.P.S (Limits for power source) |
| <input checked="" type="checkbox"/> Over power protection | <input type="checkbox"/> Other |

5. Hi-Pot

Input to Output	3000Vac	5mA	50/60Hz
Input to case	3000Vac	5mA	50/60Hz
Output to case	1500Vac	5mA	50/60Hz
Isolation resistance	100	M Ohms I/P O/P	I/P/Enclosure
Appliance	Class I <input type="checkbox"/>	II <input checked="" type="checkbox"/>	III <input type="checkbox"/>



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6. Environmental

Operating temperature	0°C to 25°C
Storage temperature	-20°C to 50°C
Operating humidity	20%-85% RH. Non-condensing
Storage humidity	10%-90% RH. Non-condensing

7. Safety standards

Safety standards	EN60950
EMC standards	CE

8. Reliability

MTBF	50000 hours min
Burn-in	4 hours 25°C, full load, 220Vac, 50Hz

9. Mechanical specification

Dimension	80mm(L)*49 mm(W)* 31mm(H)
Input cord	
Input plug	EU
Output cord	
Output plug	
Output connector	5LUC



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Appearance & Dimensions

Units: mm

