



Minwa Electronics Co.,Ltd

Minwa Green Energy Electronics Co.,Ltd

MWU2D20 • AC-DC / DC-DC Switching adapter





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1. AC/DC Input

	AC	DC
Input Voltage (V)	100~240Vac	12-13.8 Vdc
Input Frequency (Hz)	50/60Hz	
No load power consumption (W)	<0.3W	
Input full load current (A)	0.12A	0.5A

2. Output

No load output voltage	5.0V dc $\pm 5\%$
Full load output voltage	5.0V dc $\pm 5\%$
Min load output current	0A
Max load output current	1.0A
Line regulation	0.5% Input 90 to 264Vac output loaded at full load
Setup, rise, hold uptime	200ms, 30ms, 17ms/115Vac; 200ms, 20ms, 80ms/230Vac

3. Overall performance

Total output power	5W Max
Efficiency	COMPLIED with EUP

4. Protection

- Over current protection
- Short circuit protection
- Over voltage protection
- L.P.S (Limits for power source)
- Over power protection
- 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	8 hours 25°C, full load, 220Vac, 50Hz

9. Mechanical specification

Dimension	115 mm(L)* 50.1mm(W)*42 mm(H)
Input cord	
Input plug	EU
Output cord	
Output plug	
Output connector	



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Appearance & Dimensions

Units: mm

