

Wall Mount Switch Mode Power Supply Unit 18J Series - T1810-21J



FEATURES

Wall mounted light weight and compact Switch Mode Power Supply Units with a wide 100V-240V AC input voltage range to suit travel product applications. The narrow width allows two adaptors to be used in a standard double power outlet. Insulated active and neutral pins meet AS/NZS60950 for improved electrical safety. Electrical Safety Authority Approved. Other voltages and choice of output plug can be custom made upon request.

OUTPUT

Output Voltage	18.0Vdc
Maximum Load Current	1.0A
Rated Output Power	18W
Ripple and Noise*	180mV p-p
Output overshoot	10% of nominal voltage value
Turn-on Delay (Max)	5 Seconds at nominal input AC voltage and full load
Hold-up Time (Min)	10mS minimum at nominal input AC voltage and full load
Temperature coefficient	Output voltage temperature coefficient $\pm 0.05\%/^{\circ}\text{C}$
Rise Time	Start-up rise time of 10mS to rise to within regulation limits
Switching Efficiency	70.68% minimum at normal input voltage and output current from 100%, 75%, 50% and 25%.

* Voltage measured P-P at 20MHz and output parallel with 100nF ceramic & 10uF electrolytic capacitors to ground. Temperature at 25°C and nominal AC input voltage.

To view Access' extensive ranges go to: www.accesscomms.com.au

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INPUT

	MINIMUM	RATED	MAXIMUM
Input Voltage	90V AC	100 – 240V AC	264V AC
Input Frequency	47 Hz	50 / 60 Hz	63 Hz
Input Current*			350mA
At full load cold start	the inrush current will not exceed 60A, do not result any damage & the input fuse shall not be blown up.		

* At 100-240V AC

POWER CONSUMPTION AT NO LOAD

Input current	350mA max at 100-240 V AC
Power consumption (no load)	0.5W max at input 230 V AC / 50Hz

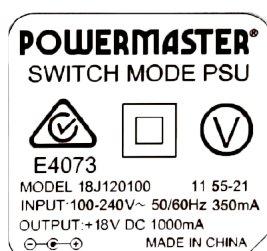
PROTECTION

Over-current Protection *	> 1.2A and ≤ 3.0A at 100-240V AC 50Hz
Short-circuit Protection	The adaptor's input power shall decrease when the output short circuit, can withstand continually without damage. It shall be self-discovery to normal state when the fault condition is removed.

ENVIRONMENTAL

Cooling	Natural convection
Operating Temperature	0°C to +40°C
Storage Temperature	-30°C to +70°C
Operating Humidity	10 ~ 90 % Non-condensing
Storage Humidity	10 ~ 90 % Non-condensing

RATING PLATE



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MECHANICAL

Dimensions	11(L) x 5.5(W) x 2.1(D)mm.
Weight	125g maximum.
Input Plug Type	Wall type, SAA 2-pin AS/NZS3112
Output Cord	UL2464, 22AWG * 2C, Black
Output Plug	DC Barrel Plug (with fork & groove) - 11 x 5.5 x 2.1mm
Polarity	Centre Positive

RELIABILITY

Mean Time Between Failure (MTBF)	The power supply is designed to have a MTBF of 50,000 hours.
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SAFETY

Insulation Resistance	10M Ω at 500V DC between Input to Output
Dielectric withstanding voltage test (Hi-pot test) input to output	AC3000V, 5mA 1 minute for type test
Leakage Current	less than 0.25mA at maximum AC input voltage
Standard	AS/NZS 60950

ENERGY EFFICIENCY

Compliance	AS/NZS CISPR22
International Efficiency Level	V
Performance Requirements	MEPS:AS/NZS 4665.1 AS/NZS 4665.2

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