

Wall Mount Switch Mode Power Supplies

T2412-21G - 32G Series



FEATURES

Wall mounted light weight and compact Switch Mode Power Supply Units with a wide 90V-264V AC input voltage range. Insulated active and neutral pins meet AS/NZS3112 for improved electrical safety. Electrical Safety Authority Approved. Popular models are shown in the table below. Other voltages and choice of output plug can be custom made upon request.

OUTPUT

Output Voltage	+24V
Rated Load Current	1.2A
Minimum Load Current	0.05A
Rated Output Power	28.8W
Over-voltage Protection	The output voltage shall be clamped.
Over-current Protection	Adaptor protected from 110-200% of rated DC output.
Line Regulation	<±5% at rated load with ±10% of input voltage change
Load Regulation	<±5% from 10% to 100% of rated load (for +24V)
Short-circuit Protection	The adaptor shall not be damaged by shorting the DC output to Ground with auto recovery functioning correctly.
Ripple and Noise	Add 0.1uF/50V ceramic capacitor and 10uF/50V aluminium electrolytic capacitor across the output terminal. Measured with 20MHz Bandwidth Oscilloscope.
Hold-up Time (min)	10mS minimum at nominal input AC voltage and full load
Output over-shoot	<7% of nominal voltage value and full load
Temperature coefficient	Output voltage temperature coefficient ±0.05%/°C
Turn-on Delay (max)	3 Seconds at nominal input AC voltage and full load
Rise Time	Start-up rise time of <40mS to rise to within regulation limits
Switching Efficiency	80.2% minimum at normal input voltage, 115V/60Hz and 230V/50Hz output current from 100%, 75%,50% and 25%.

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

Sydney (Head Office)
Brisbane Sales
Melbourne Office
Adelaide Office

Unit 1, 29 Prince William Drive, Seven Hills NSW 2147
28 The Gateway, Broadmeadows VIC 3047
71 Anzac Highway, Ashford SA 5035

Phone: (02) 9414 8888
Phone: (07) 3308 5555
Phone: (03) 9330 8333
Phone: (08) 8338 5540

sales@accesscomms.com.au
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INPUT

	MINIMUM	RATED	MAXIMUM
Input Voltage	90V AC	100 – 240V AC	264V AC
Input Frequency	-3 Hz	50 / 60 Hz	63 Hz
Input Current - 230V AC			0.9A
Input Power			36.42W
Inrush Current	No damage shall occur and the input fuse shall not be blown up nominal input voltage full load 25°C cold start.		
Primary current protection	An adequate internal fuse on the AC input line is provided.		
Configuration	Wall mount, AU-pin, 2-conductors		

POWER CONSUMPTION AT NO LOAD

Input current	≤25mA
Power consumption (no load)	0.3W max

ENVIRONMENTAL

	OPERATING	STORAGE
Temperature	0°C to +40°C	-20°C to +80°C
Relative Humidity	10 ~ 90 % RH. Non-condensing	10 ~ 90 % RH. Non-condensing
Cooling	Natural convection	

MECHANICAL

Dimensions	96.0(L) x 47.0(W) x 34.2(D)mm
Weight	196g maximum
Plastic Case	UL94V-1
Input Plug Type	Wall type, SAA 2-pin AS/NZS3112:2000
Output Cord	22AWG/2C, 1.8m, VW-1, 80 °C, 300V, 3.0Q, black (PAHS+REACH+ROHS)
Output Plug	dc plug type 5.5 x 2.1 x 11mm (FORK AND GROOVE)
Polarity	Centre Positive

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RELIABILITY

Mean Time Between Failure (MTBF)

The power supply is designed to have a MTBF of 50,000 hours.

SAFETY

Dielectric withstanding voltage test (Hi-pot test) input to output

3000V AC 10mA for 1 minute.

Insulation Resistance

10M Ω at 500V DC between Input to Output

Leakage Current

0.25mA maximum at normal AC input voltage and frequency

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