

## Wall Mount Switch Mode Power Supplies

### 32G Series T2412-21G



#### 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

<b>Output Voltage</b>	+24V
<b>Rated Load Current</b>	1.2A
<b>Minimum Load Current</b>	0.05A
<b>Rated Output Power</b>	28.8W
<b>Over-voltage Protection</b>	The output voltage shall be clamped.
<b>Over-current Protection</b>	Adaptor protected from 110-200% of rated DC output.
<b>Line Regulation</b>	<±5% at rated load with ±10% of input voltage change
<b>Load Regulation</b>	<±5% from 10% to 100% of rated load (for +24V)
<b>Short-circuit Protection</b>	The adaptor shall not be damaged by shorting the DC output to Ground with auto recovery functioning correctly.
<b>Ripple and Noise</b>	Add 0.1uF/50V ceramic capacitor and 10uF/50V aluminium electrolytic capacitor across the output terminal. Measured with 20MHz Bandwidth Oscilloscope.
<b>Hold-up Time (min)</b>	10mS minimum at nominal input AC voltage and full load
<b>Output over-shoot</b>	<7% of nominal voltage value and full load
<b>Temperature coefficient</b>	Output voltage temperature coefficient ±0.05%/°C
<b>Turn-on Delay (max)</b>	3 Seconds at nominal input AC voltage and full load
<b>Rise Time</b>	Start-up rise time of <40mS to rise to within regulation limits
<b>Switching Efficiency</b>	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](http://www.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 be occurred and the input fuse shall not be blown up nominal input voltage full load 25°C cold start.		
Primary current protection	An adequare 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	Center 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 $\Omega$  at 500V DC between Input to Output

#### Leakage Current

0.25mA maximum at normal AC input voltage and frequency

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