

Wall Mount Switch Mode Power Supply Unit 32G Series T1520-002



FEATURES

Wall mounted light weight and compact Switch Mode Power Supply Units with a wide 90V-264V AC input voltage range to suit Electronic product applications. Insulated active and neutral pins meet AS/NZS3112 for improved electrical safety. Electrical Safety Authority Approved.

OUTPUT

Output Voltage	15.4V Normal DC
Maximum Load Current	2.2A
Minimum Load Current	0.05A
Rated Output Power	30.3W
Line Regulation	<±7% at rated load with from 10% to 100% of rated load
Load Regulation	<±7% from 10% to 100% of rated load
Ripple and Noise*	100mV p-p
Output overshoot	<7% of nominal voltage value
Turn-on Delay (Max)	2 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 ±0.05%/°C
Rise Time	Start-up rise time of <20mS to rise to within regulation limits
Switching Efficiency	74.6% 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

Sydney (Head Office) 33-35 Alleyne Street, Chatswood, NSW, 2067
Brisbane Office Unit 4, 7 Luke Street, Lytton, QLD, 4178
Melbourne Office 28 The Gateway, Broadmeadows, VIC, 3047
Adelaide Office 71 Anzac Highway, Ashford, SA, 5035

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

Fax: (02) 9414 8800
Fax: (07) 3308 5500
Fax: (03) 9330 8330
Mob: 0438 245 116

websales@accesscomms.com.au
brisbane@accesscomms.com.au
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Wall Mount Switch Mode Power Supply Unit

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INPUT

	MINIMUM	RATED	MAXIMUM
Input Voltage	90V AC	100 – 240V AC	264V AC
Input Frequency	-3 Hz	50 / 60 Hz	+3 Hz
Input Current*			0.6A
Primary current protection	An internal fuse on the AC input line is provided.		
Configuration	Wall mount, AU-pin, 2-conductors, <Active, Neutral>		

* At 230V AC

POWER CONSUMPTION AT NO LOAD

Input current	≤35mA
Power consumption (no load)	0.5W max

PROTECTION

Over-current Protection *	Adaptor protected with ±10% of input voltage change.
Over-voltage Protection	8.1V maximum clamped by internal protection zener.
Short-circuit Protection	The adaptor shall not be damaged by shorting the DC output to Ground with auto recovery functioning correctly.

ENVIRONMENTAL

Cooling	Natural convection
Operating Temperature	0°C to +40°C
Storage Temperature	-20°C to +80°C
Operating Humidity	10 ~ 90 % Non-conting
Storage Humidity	10 ~ 90 % Non-condensing

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MECHANICAL

Dimensions	93.0(L) x 47.0(W) x 34.2(D)mm.
Weight	181g maximum.
Plastic Case	UL94V
Input Plug Type	Wall type, SAA 2-pin AS/NZS3112:2000
Output Cord	18AWG/2C, 3.5Q, 80 °C, 300V, 1185, 1830mm, Lead Free.
Output Plug	DC Barrel Plug (with fork & groove) - 11 x 5.5 x 2.1mm
Polarity	Center Positive

RELIABILITY

Mean Time Between Failure (MTBF)

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

SAFETY

Insulation Resistance	10MΩ at 500V DC between Input to Output
Dielectric withstanding voltage test (Hi-pot test) input to output	3000V AC 10mA for 1 minute
Leakage Current	0.25mA maximum at normal AC input voltage and frequency

ENERGY EFFICIENCY

Compliance

MEPS IV

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