

SMPS 1000 SI

Switch Mode Power Supply

The Eltek range of modular power supplies has been specifically developed to meet the DC powering requirements for telecommunications and industrial applications.

High efficiency, low weight and - volume are achieved through the utilisation of switch mode technology.

SMPS 1000 SI offers the following features

- *“Hot” plug in facilitating installation and services*
- *Power factor corrected input providing reduced harmonics and minimal input power requirements*
- *Automatic Over Temperature derating for increased reliability*
- *Comprehensive alarm and control facilities for remote and local monitoring*
- *Compliant with International Standards*



SMPS 1000 SI

Switch Mode Power Supply

The Eltek range of plug-in switch mode power supplies has been specifically developed to provide high quality, reliable DC power for communication applications.

SPECIFICATION

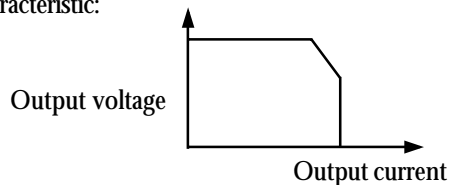
INPUT

Voltage:	150 Vac - 275 Vac 150- 185 Vac with 75% output power
Over voltage:	300 V for 10 min, 345 V for 400 ms
Frequency:	45-65 Hz
Harmonics:	According to EN 61000-3-2
Max current:	5.5 A
Power factor:	> 0.995
Total harmonic distortion (THD):	< 9 %, typically < 7%
Protection:	8 A Fuse, Soft start

OUTPUT

Voltage:	24 V, 48 V or 60 V
Max current:	36 A - 24 V, 21 A - 48 V or 18 A - 60 V
Active current share:	+/- 5 %
Voltage regulation:	
Static:	+/- 0.5 % from 0 to full load
Dynamic:	+/- 1 % for 10-90 % or 90 - 10% load variation
Hold up time:	> 10 ms
Ripple:	< 100 mVp-p
Psophometrisk noise:	< 2 mV

VI - Characteristic:



OTHER SPECIFICATIONS

Efficiency:	> 91 %
EMC- emission:	EN 50081-1
EMC- immunity:	EN 50082-2
Safety:	EN 60950
Isolation voltage:	3 KVac, input - output 1.5 KVac, input-earth 1.0 KVdc, output-earth
Protection:	Output power limiting Non destructive short circuit protection High output voltage shut down
Metering:	Front panel test points for output current
Volt free alarm:	Common output operated under one of the following conditions: Module Failure Low input voltage High output voltage shut down Over temperature
Voltage adjustment:	Output voltage adjustment via front panel potentiometer or via the alarm module AL 175 NT or AL 1000.
LED-indicators:	Green- Module OK Yellow- Module in current limit Red- Module in alarm condition
Operating temperature:	-10°C to + 45°C (14°F to 113°F) + 45°C to + 55°C (113°F to 131°F): Power limiting may occur
Storage temperature:	-25°C to + 85°C (-13°F to 185°F)
Humidity:	5 - 95 % RH non condensing
Dimensions:	66.8 x 266 x 220 mm (wxhxd)
Weight:	< 2.8 kg (< 6.2lb)
Housing:	IP20
Cooling:	Convection

FUNCTIONAL

The SMPS 1000 supports the following control functions:

- External shut down input
- Remote output voltage adjust for temperature compensation, boost charging and battery testing
- Current share bus for increased reliability in parallel operation
- Remote sense for cable voltage drop compensation



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