

Installation Notes



Adaptor Series

45 Watts

Single Output

RS Stock Nos. 192-0933, 192-0949

Output Characteristics

RS Stk Number	Model Number	Output Voltage ¹	Minimum Load	Maximum Load	Regulation	Ripple (P-P) ²
192-0933	SA45-3104	18V	0 A	2.5 A	±5%	180 mV
192-0949	SA45-3109	24 V	0 A	1.87 A	±5%	240 mV

1 Measured at end of output cable

2 Ripple and noise is measured with 0.1µF and 10µF in parallel with load and 10MHz bandwidth.

Input Specifications

Input range	90 VAC to 264 VAC (wide range, suitable for all mains voltages around the world)
Frequency	47 - 63 Hz
Input current	1 A rms @ 90 VAC 0.5 A rms @ 264VAC
Efficiency	80% typical at full load
EMI filter	Meets FCC Class B CISPR 22 Class B (includes EN55022 class B and VDE 0878 PT3 class B)
Electromagnetic Compatibility	Complies with EN50081-1 and EN50082-1

Output Specifications

Maximum wattage	45 W convection cooled
Regulation	±5%
Hold-up time	10 ms minimum at full load ,115 VAC
Overload protection	Short circuit protection, pulsing mode, auto recovery
Overvoltage protection	+18 V - trip point 21 V to 26 V; +24 V - trip point 28 V to 32 V; recycle AC to reset

Environmental

Operating temperature:	0°C to 40°C ambient
Storage temperature:	-10°C to 70°C
MTBF:	> 100,000 hours at full load and 25°C ambient conditions

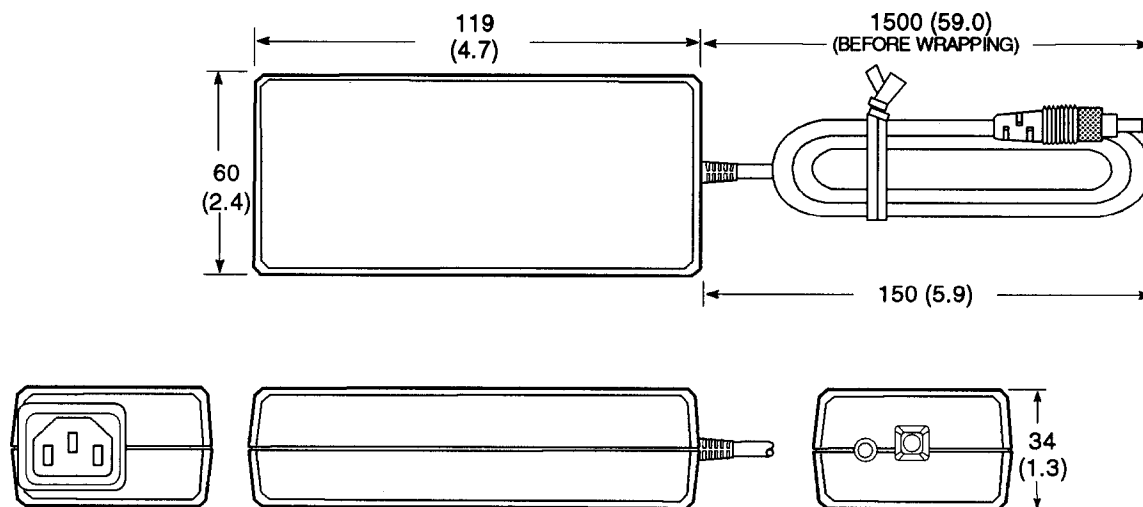
Safety

VDE	0805/EN60950 (IEC950)
UL	UL1950
CSA	CSA 22-2-234 Level 3



This product is CE marked following the provisions of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC

Drawings



Input Connector

IEC AC mains receptacle

Suitable moulded leads with IEC socket and following plugs:-
UK 3 pin mains plug RS 426-373
European Schuko plug RS 458-156
USA 3 pin mains plug RS 458-162

Output Connector

2.5 mm dia barrel jack plug -
centre is +V, outside is 0V

Mating Connector

2.5mm PCB mount socket
RS 486-678

Warning

This is a constant voltage adaptor power supply, i.e. it does not have a constant current limit, and is therefore unsuitable for directly charging batteries on its own. Check application for suitability. This power supply may not be suitable for all notebook computers.

Notes

- 1 Specification subject to change without notice.
- 2 All dimensions are in mm and (inches).
- 3 Weight 0.25kg / 0.54lb
- 4 Colour - Black



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