

SSL40 Series

Single output

- 4.21 x 1.77 x 0.98 inch enclosure
- 40W external power supply
- Molded UL94V-0 plastic enclosure
- Stand alone 'listed' equipment
- Overvoltage and short circuit protection
- EN55022, EN55011, FCC conducted and radiated emissions level B
- UL, CSA and VDE safety approvals

The SSL40 series is a 40W universal input AC/DC external power supply in a 4.21 x 1.77 x 0.98 inch plastic enclosure. The SSL40 is a low cost series with six single output models in a very small package providing a pre-approved external power solution for a host of worldwide low power portable and desktop applications. The SSL40 provides 40W of output power with free air convection cooling. Standard features include universal input, overvoltage, short circuit protection and EN55022 conducted emissions level B. The series, with full international safety approval and the CE mark, provides pre-approved SELV outputs without the need for further safety approval or mechanical integration into the application system. The SSL40 series is designed for use in low power, portable and desktop data networking, computer and industrial applications requiring low cost external power adapters in a small package.



CE (LVD & EMC)

2 YEAR WARRANTY

All specifications are typical at nominal input, full load at 25°C unless otherwise stated

SPECIFICATIONS

OUTPUT SPECIFICATIONS

Line regulation	Single output	±0.5%
Total regulation	(See Note 3)	±2.0%
Overshoot/undershoot	At turn on	1.0%
Transient response	Main output 50% to 100% load step	±5.0% max. dev., 1ms recovery to 1.0%
Temperature coefficient		±0.02%/°C, max.
Overvoltage protection		See table
Output power limit		135% to 175% of max. output power
Short circuit protection		Continuous with auto-restart

INPUT SPECIFICATIONS

Input voltage range	Universal input	90 to 264VAC
Input frequency range		47Hz to 440Hz
Input current	90VAC 220VAC	1.00Arms max. 0.52Arms max.

EMC CHARACTERISTICS

Radiated emissions	EN55022/11, FCC part 15	Level B
Conducted emissions	EN55022/11, FCC part 15	Level B

International Safety Standard Approvals



VDE0805/EN60950/IEC950 License No. 104723G



UL1950 File No. E136005



CSA C22.2 No. 950 File No. LR41062

GENERAL SPECIFICATIONS

Hold-up time	110VAC @ 40W 230VAC @ 40W	5ms 45ms
Efficiency	110VAC @ 40W	83% typical
Isolation voltage	Input/output	3000VAC
Switching frequency	Fixed	100kHz ±10kHz
Approvals and standards	Safety	VDE0805, EN60950 IEC950, UL1950 CSA C22.2 No. 950
Case material	General Electric Lexan, black	
Flammability rated	UL94V-0	
Weight	200g (7.06oz)	
MTBF	MIL-HDBK-217F	150,000 hours min.

ENVIRONMENTAL SPECIFICATIONS

Thermal performance	Operating temperature full load, no derating Non-operating 0°C to +40°C ambient, convection cooled Peak	0°C to +40°C -40°C to +85°C Full load (See Note 1)
Relative humidity	Non-condensing	5% to 95% RH
Altitude	Operating Non-operating	10,000 feet max. 30,000 feet max.
Vibration (See Note 6)	5Hz to 500Hz	2.4G rms
Shock	per MIL-STD-810E	516.4 Part IV

SSL40 Series

Single output

EXTERNAL AC/DC POWER SUPPLIES | 40W External AC/DC Power Supplies

2

For the most current data and application support visit www.artesyn.com/powergroup/products.htm

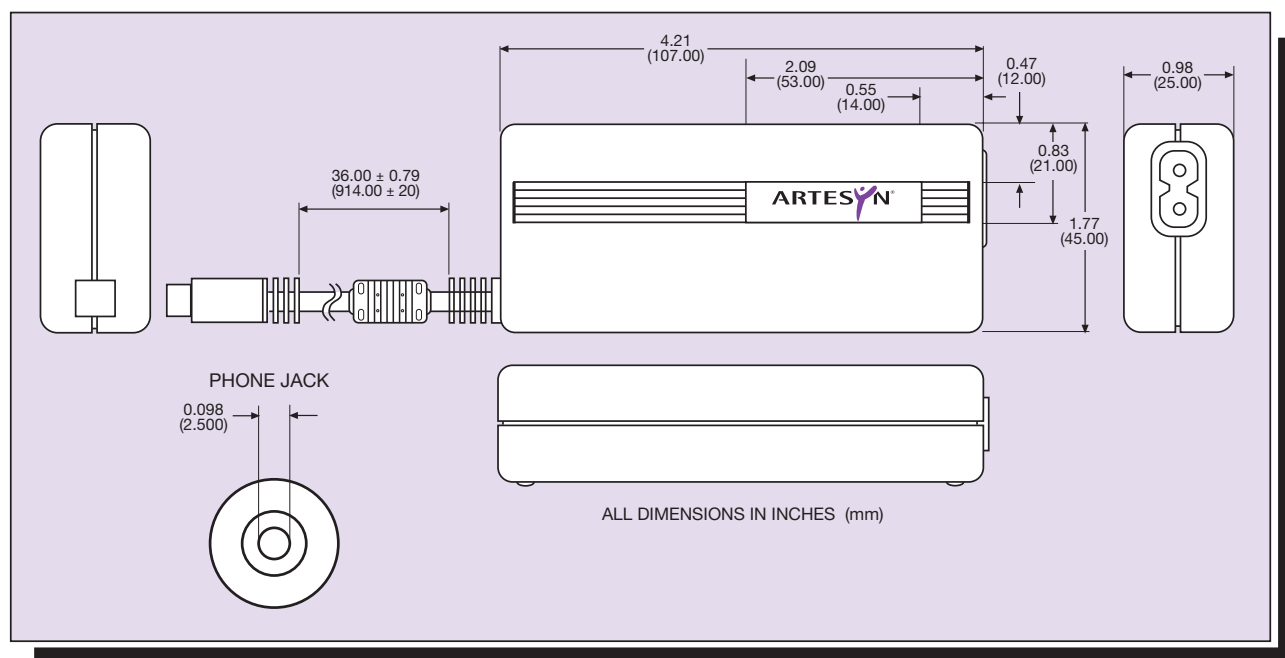
OUTPUT VOLTAGE	OUTPUT CURRENTS			RIPPLE ⁽²⁾	OVP THRESHOLD ⁽⁵⁾	TOTAL REGULATION ⁽³⁾	MODEL NUMBER
	MIN	MAX	PEAK ⁽¹⁾				
+12V	0A	3.0A	3.5A	250mV	15V to 18V	±2.0%	SSL40-7612
+14V	0A	2.7A	3.2A	250mV	16.5V to 19.5V	±2.0%	SSL40-7614
+15V	0A	2.6A	3.0A	250mV	17.5V to 21.0V	±2.0%	SSL40-7615
+18V	0A	2.2A	2.6A	250mV	22.0V to 25.5V	±2.0%	SSL40-7618
+24V	0A	1.6A	1.9A	250mV	29.0V to 34.2V	±2.0%	SSL40-7624
+48V	0A	0.83A	1.0A	250mV	55.0V to 64.0V	±2.0%	SSL40-7617

Notes

- 1 Peak output current lasting less than 60 seconds with duty cycle less than 5.0%. During peak loading, output voltage may exceed total regulation limits.
- 2 20MHz bandwidth, peak to peak, measured using a 12 inch twisted pair terminated with a 47µF electrolytic capacitor.
- 3 Total regulation is defined as the static output regulation at 25°C, including initial tolerance, line voltage within stated limits, load currents within stated limits, and output voltages adjusted to their factory settings.
- 4 To help maintain the power supply safety approvals, the IEC320/C7 input connector cable must be rated minimum 3.0A and approved by an applicable safety agency for the intended country of use. National and international variations on mains plugs, adapters and customer preference to lead length prevents Artesyn from supplying an IEC320/C7 (or compatible) input connector cable. The IEC320/C7 input (or compatible) connector cable can be sourced locally, e.g. Qual Electronics, Radio Shack, etc. or other non affiliated distributors.
- 5 Output voltage protected by Zener diode.
- 6 Three orthogonal axes random vibration, 10 minute test for each axis.
- 7 IEC320/C8 type input connector.

PIN CONNECTIONS 2.5MM JACK PLUG

Inner	V _A	SWITCHCRAFT Power Jack, P/N 712A or equiv.
Outer	Return	



Data Sheet © Artesyn Technologies® 2003

The information and specifications contained in this data sheet are believed to be correct at time of publication. However, Artesyn Technologies accepts no responsibility for consequences arising from printing errors or inaccuracies. Specifications are subject to change without notice. No rights under any patent accompany the sale of any such product(s) or information contained herein.