

# SSL40 Series

## Single output

- 4.21 x 1.77 x 0.98 inch enclosure
- 40 W 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
- Available RoHS compliant



The SSL40 series is a 40 W 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 40 W 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	90-264 Vac
Input frequency range		47-440 Hz
Input current	90 Vac 220 Vac	1.00 Arms max. 0.52 Arms max.

#### EMC CHARACTERISTICS

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

#### GENERAL SPECIFICATIONS

Hold-up time	110 Vac @ 40 W 230 Vac @ 40 W	5 ms 45 ms
Efficiency	110 Vac @ 40 W	83% typical
Isolation voltage	Input/output	3000 Vac
Switching frequency	Fixed	100 kHz ±10 kHz
Approvals and standards	Safety	VDE0805, EN60950 IEC950, UL1950 CSA C22.2 No. 950
Case material	General Electric Lexan, black	
Flammability rated	UL94V-0	
Weight	200 g (7.06 oz)	
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)	5-500 Hz	2.4 G rms
Shock	per MIL-STD-810E	516.4 Part IV

#### International Safety Standard Approvals



VDE0805/EN60950/IEC950 License No. 104723G



UL1950 File No. E136005



CSA C22.2 No. 950 File No. LR41062

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## Single output

For the most current data and application support visit [www.artesyn.com/powergroup/products.htm](http://www.artesyn.com/powergroup/products.htm)

OUTPUT VOLTAGE	OUTPUT CURRENTS			RIPPLE <sup>(2)</sup>	OVP THRESHOLD <sup>(5)</sup>	TOTAL REGULATION <sup>(3)</sup>	MODEL NUMBER <sup>(8,9)</sup>
	MIN	MAX	PEAK <sup>(1)</sup>				
+12 V	0 A	3.0 A	3.5 A	250 mV	15.0-18.0 V	±2.0%	SSL40-7612J
+14 V	0 A	2.7 A	3.2 A	250 mV	16.5-19.5 V	±2.0%	SSL40-7614J
+15 V	0 A	2.6 A	3.0 A	250 mV	17.5-21.0 V	±2.0%	SSL40-7615J
+18 V	0 A	2.2 A	2.6 A	250 mV	22.0-25.5 V	±2.0%	SSL40-7618J
+24 V	0 A	1.6 A	1.9 A	250 mV	29.0-34.2 V	±2.0%	SSL40-7624J
+48 V	0 A	0.83 A	1.0 A	250 mV	55.0-64.0 V	±2.0%	SSL40-7617J

### Notes

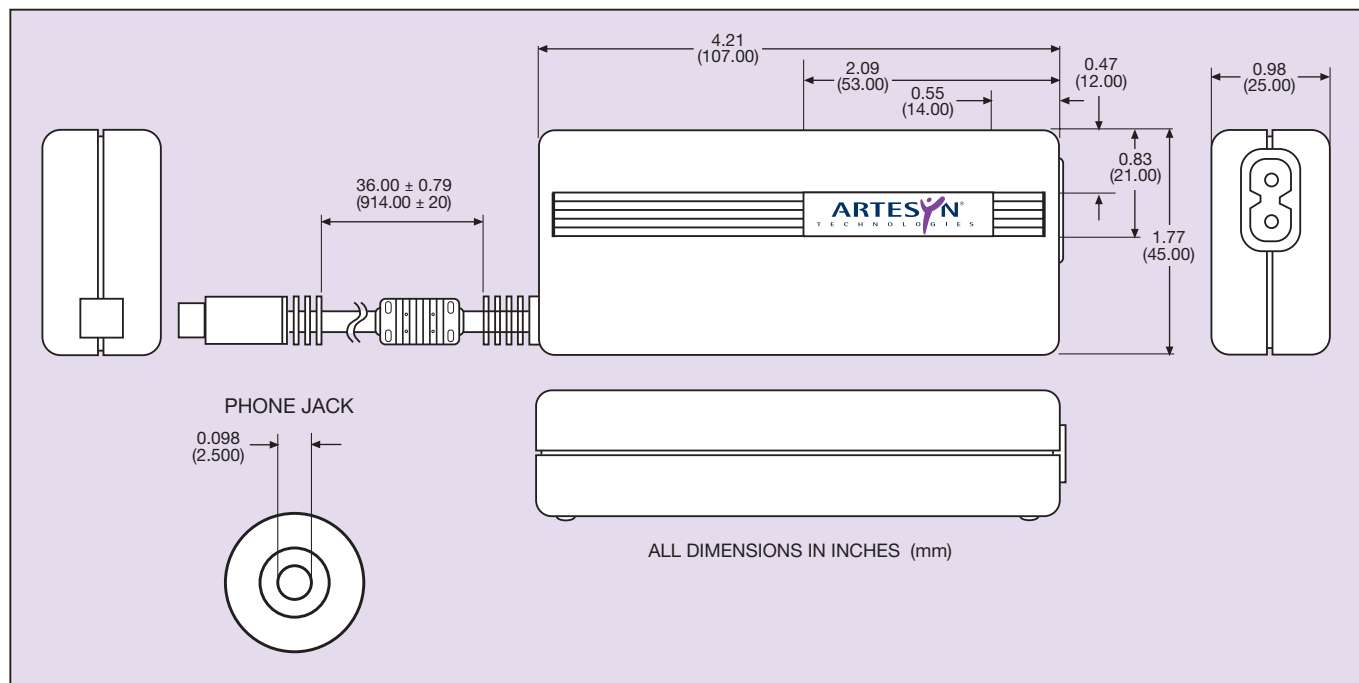
- 1 Peak output current lasting less than 60 seconds with duty cycle less than 5.0%. During peak loading, output voltage may exceed total regulation limits.
- 2 20 MHz bandwidth, peak to peak, measured using a 12 inch twisted pair terminated with a 47  $\mu$ F electrolytic capacitor.
- 3 Total regulation 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 3.0 A 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. Newark, Qual Electronics, Radio Shack, etc. or other non affiliated distributors.

### Notes

- 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.
- 8 The 'J' suffix indicates that these parts are Pb-free (RoHS 6/6) compliant. TSE RoHS 5/6 (non Pb-free) compliant versions may be available on special request, please contact your local sales representative for details.
- 9 NOTICE: Some models do not support all options. Please contact your local Artesyn representative or use the on-line model number search tool at <http://www.artesyn.com/powergroup/products.htm> to find a suitable alternative.

### PIN CONNECTIONS 2.5 MM JACK PLUG

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



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