

SSL20C Series

Single Output External Power Supply

- 4.65 x 2.40 x 1.08 inch enclosure
- 20W continuous external power supply
- Molded UL94V-0 plastic enclosure
- Overvoltage and short circuit protection
- EN55022, FCC conducted and radiated emissions level B
- UL, CSA, VDE and CE safety approvals

The SSL20C series is a 20W universal input AC/DC external Class II power supply in a 4.65 x 2.40 x 1.08 inch plastic enclosure. The SSL20C represents the next generation of low cost external power supplies, suitable for a host of worldwide low power external power applications. The SSL20C provides up to 20W under natural convection cooling. Standard features include universal AC input, overvoltage and short circuit protection and meets EN55022 level B for conducted emissions. The SSL20C has several output voltages available ranging from 5V to 48V. The series has full international safety approvals and carries the CE mark to provide pre-approved SELV outputs.



CE (LVD & EMC)

2 YEAR WARRANTY

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

SPECIFICATIONS

OUTPUT SPECIFICATIONS

Total regulation (See Note 3)	Main output Line, load and temperature co-efficient	±5.0%
Overshoot/undershoot	Less than 10ms	10%
Transient response	Main output 70% to 100% full load step	±5.0% of nominal voltage
Overvoltage protection (See Note 5)	Auto-recovery	140% nominal
Short circuit protection		Continuous with auto-recovery
Minimum output current		0A

INPUT SPECIFICATIONS

Input voltage range	Universal input	90 to 264VAC
Input frequency range		47Hz to 63Hz
Input current	90VAC 264VAC	0.6Arms max. 0.3Arms max.

EMC CHARACTERISTICS

Radiated emissions	EN55022, FCC	Level B
Conducted emissions	EN55022, FCC	Level B

GENERAL SPECIFICATIONS

Hold-up time	115VAC @ full load	10ms
Efficiency	115VAC @ full load 5V models only	70% typ. 65% typ.
Isolation voltage	Input/output	3000VAC
Switching frequency	Fixed	72kHz, Typ.
Approvals and standards (See Note 4)	EN60950, IEC950, UL1950 CSA C22.2 No. 950	
Case material	General Electric Lexan, black	
Flammability rating	UL94V-0	
Weight	200g (7oz)	
MTBF	MIL-HDBK-217F @ 25°C	>150,000 hours

ENVIRONMENTAL SPECIFICATIONS

Thermal performance	Operating, full load Non-operating 0°C to +40°C ambient, convection cooled	0°C to +40°C -40°C to +85°C Full load
Relative humidity	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 (approx.)
Shock	per MIL-STD-810E	516.4 Part IV

International Safety Standard Approvals



VDE0805/EN60950/IEC950 File No. 129739G



UL1950 File No. E136005



CSA C22.2 No. 950 File No. LR41062

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

OUTPUT VOLTAGE	OUTPUT CURRENTS			RIPPLE (2)	TOTAL REGULATION (3)	OVP (MAX)	MODEL NUMBER
	MIN	MAX	PEAK (1)				
+5V	0A	4.0A	4.80A	50mV	4.75V to 5.25V	7V	SSL20C-7605
+12V	0A	1.67A	2.00A	120mV	11.4V to 12.6V	16.8V	SSL20C-7612
+15V	0A	1.34A	1.60A	150mV	14.25V to 15.75V	21V	SSL20C-7615
+18V	0A	1.11A	1.33A	180mV	17.1V to 18.9V	25.2V	SSL20C-7618
+24V	0A	0.83A	1.00A	240mV	22.8V to 25.2V	33.6V	SSL20C-7624
+48V	0A	0.42A	0.50A	300mV	45.6V to 50.4V	64V	SSL20C-7617

Notes

- 1 Peak output current lasting less than 3 seconds and non repetitive. During peak loading output voltage may exceed total regulation limits.
- 2 20MHz bandwidth, peak to peak, measured using 0.1µF ceramic capacitor in parallel with a 10µF tantalum capacitor at the point of output load.
- 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 maintain user-system safety approvals, the input power cable must be appropriately rated and approved.
- 5 This feature protects output circuitry from output overvoltage caused by internal PSU failure.
- 6 Three orthogonal axes random vibration, 10 minute test for each axis.

SINGLE OUTPUT PIN CONNECTIONS 2.5MM JACK PLUG

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

INPUT CONNECTOR

IEC 320	two pins	C8 type	Rated at 2.5A, 250VAC
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