# Single Output External Power Supply



EXTERNAL AC/DC POWER SUPPLIES 20W External AC/DC Power Supplies

- 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.

**(E** (LVD & EMC)

### **2 YEAR WARRANTY**

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

SPECIFICATIONS

### OUTPUT SPECIFICATIONS

OUTFOR SPECIFICATION		
Total regulation (See Note 3)	Main output Line, load and temperature co-	±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 CHARACTERISTIC		

Radiated emissions

Conducted emissions

EN55022, FCC EN55022, FCC

Level B

Level B

GENERAL SPECIFICAT	IONS		
Hold-up time	115VAC @ full load	d 10ms	
Efficiency	115VAC @ full load 5V models only	d 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 load0°C to +40°CNon-operating-40°C to +85°C0°C to +40°C ambient,Full loadconvection cooledFull 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 (ap)	
Shock	per MIL-STD-810E 516.4 Par	

International Safety Standard Approvals



UL1950 File No. E136005

VDE0805/EN60950/IEC950 File No. 129739G

CSA C22.2 No. 950 File No. LR41062

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## EXTERNAL AC/DC POWER SUPPLIES 20W External AC/DC Power Supplies

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

OUTPUT	OUT	PUT CURRENT	S BIPPLE <sup>(2)</sup>		TOTAL	OVP	MODEL
VOLTAGE	MIN	MAX	PEAK <sup>(1)</sup>		REGULATION <sup>(3)</sup>	(MAX)	NUMBER
+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

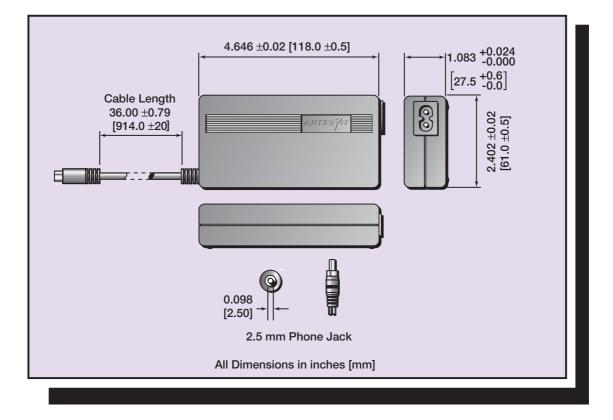
### Notes

- 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  $0.1\mu$ F ceramic capacitor in pervalid with a 100<sup>-5</sup> kertal way appearing to the appearing of the second se

 in parallel with a 10µF tantalum capacitor at the point of output load.
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 <sub>A</sub>		SWITCHCRAFT Power	
Outer	Return		Jack, P/N 712A or equiv.	
INPUT CONNECTOR				
IEC 320	two pins	C8 type	Rated at 2.5A, 250VAC	



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