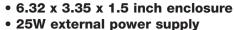


## **SCL25 SERIES**

Single and dual output





- Molded UL94V-0 plastic enclosure
- Output connector options
- Stand alone 'listed' equipment
- Short circuit protection
- EN55022, EN55011 conducted emissions level B
- UL, CSA and VDE safety approvals
- Available RoHS compliant

The SCL25 series is a 25W universal input AC/DC external power supply in a 6.32 x 3.35 x 1.5 inch plastic enclosure. The SCL25 series has a single output and dual output model in a low profile package providing a pre-approved external power solution for a host of worldwide low power portable and desktop applications. The SCL25 provides 25W of output power with free air convection cooling which can peak at 30W for 60 seconds. Standard features include universal input, 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 SCL25 series is designed for use in low power, and desktop data networking, computer and industrial applications requiring external power adapters in a low profile package.



## [ 2 YEAR WARRANTY ]

 $\epsilon$ 

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

OUTPUT SPECIFICATIONS				
Line regulation LL to HL, FL	Single outputs Multi's: +5V output Multi's: aux. outputs	±0.5% ±0.5% ±1.0%		
Total regulation No load to full load (See Note 5)	Single outputs Multi's: +5V output Multi's: aux. outputs	±4.0% +6.0%/-4.0% +7%/-5%		
Overshoot/Undershoot	At turn on	10%		
Transient response	+5V output ±25 (40% FL to 60% full load step)	00mV max. dev., 1ms recovery to 1.0%		
Temperature coefficient	±	0.02%/°C, max.		
Overvoltage protection	+5V Output (See Note 8	3) 6.25V ±0.65V		
Output power limit	Primary power limited	80W Pin max. 40W Pout min.		
Short circuit protection	1	Continuous with auto-restart		
Green LED indicator	(See Note 6)	Normally ON		
INPUT SPECIFICATION	IS			
Input voltage range	Universal input	90 to 264VAC		
Input frequency range		47Hz to 63Hz		
Input surge current		36A max.		
Safety ground leakage current	110VAC, 60Hz 230VAC, 50Hz	0.2mA 0.4mA		
EMC CHARACTERISTICS				
Radiated noise Conducted noise Electrostatic discharge Electrostat. air discharge RF field susceptibility Electrical fast transients/bursts Surge susceptibility	EN55022, EN55011, FO EN55022, EN55011, FO EN61000-4-2 EIC801-2 IEC801-3 EN61000-4-4	CC P15 Level B CC P15 Level B Level 4 Level 3 Level 2 Level 3		

GENERAL SPECIFICATIONS			
Hold-up time	110VAC 10ms 230VAC 60ms		
Efficiency	110VAC and 230VAC	70% typical	
Isolation voltage	Input/output Input/chassis	3000VAC 1500VAC	
Switching frequency	Variable 35kHz to 80kl		
Approvals and standards	IEC9	/DE0805, EN60950 50, UL1950, BABT CSA C22.2 No. 950	
Case Material	General Ele	ectric Lexan, Black	
Flammability rated		UL94V-0	
Weight		450g (15.9oz)	
MTBF	MIL-HDBK-217F	150,000 hours	
ENVIRONMENTAL SPI	ECIFICATIONS		
Thermal performance	Operating, full load, no derating Non-operating 0°C to +40°C ambier convection cooled Peak (0°C to +40°C, (See Note 3)	-40°C to +85°C nt, 25W	
Relative humidity	Non-condensing	5% to 95% RH	
Altitude	Operating Non-operating	10,000 feet max. 30,000 feet max.	
Vibration (5Hz to 500Hz)	Three orthogonal axe random vibration, 10 minute test for ea		

# 25 Watt AC/DC external power supplies

OUTPUT	Ol	UTPUT CURREN	TS	RIPPLE (4)	TOTAL	(9)
VOLTAGE	MIN <sup>(1)</sup>	MAX <sup>(2)</sup>	PEAK (3)	NIPPLE (*)	REGULATION (5)	MODEL NUMBER (9)
+5V (1)	0A	2.5A	4.0A	50mV	+6.0%, -4.0%	SCL25-7618J
+12V (2)	0A	1.0A	2.0A	120mV	+7.0%, -5.0%	
+24V (1)	0A	1.0A	1.3A	240mV	±4.0%	SCL25-7624J

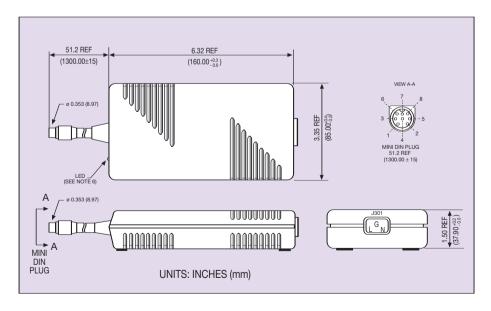
#### Notes

- Although the SCL25 models will operate with no load on the outputs, some components temperatures increase under this condition. To maximize reliability, a minimum total load of 4W is required.
- Natural convection cooling, 25W maximum.
- Peak output current lasting less than 60 seconds with duty cycle less than 5%. During peak loading, output voltage may exceed total regulation limits.
- 50MHz bandwidth, peak to peak, measured differentially.
- 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. For the dual output model to maintain stated regulation:

$$0.25 \le I(1) \le 5$$
, for  $\underline{I(1)} > 0.3A$   
 $I(2)$   
 $0.50 \le I(1) \le 5$ , for  $\underline{I(1)} < 0.3A$   
 $I(2)$ 

- The green LED is ON to indicate the presence of output (1). The LED turns off during output short circuit condition.
- To help maintain the power supply safety approvals, the IEC320/C13 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/C13 (or compatible) input connector cable. The IEC320/C13 input (or compatible) connector cable can be sourced locally, e.g. Qual Electronics, Radio Shack, etc. or other non affiliated distributors.
- Overvoltage protection is standard on the -7624J model and 5V output (single and multiple output) models.
- 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.

PIN CONNECTIONS MINI DIN PLUG					
OUTPUT PIN NO.	SINGLE OUTPUT	DUAL OUTPUT	MATING CONNECTOR		
1	VA	VA			
2	VA	VA	AMP Shielded		
3	VA	VA	Miniature circular DIN Plug 8 Pin P/N		
4	VA	VB	749179-1 or equivalent		
5	Return	Return			
6	Return	Return			
7	Return	Return			
8	Return	Return			



### **International Safety Standard Approvals**



VDE0805/EN60950/IEC950 File No. 10401-3336-1083 Licence No. 1083



ռ**ԳԱ**ս**s** UL1950 File No. E136005



CSA C22.2 No. 950 File No. LR41062



Certification pending

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