



PROCESS CONTROL
REMOTE MONITORING
HVAC CONTROL
WATER & WASTEWATER
OIL & GAS

Regulated, high-efficiency, high-reliability, wide temperature range, DC power supplies for powering ScadaFlex Controllers, RTUs, and distributed I/O modules.



ScadaFlex DC Power Supply

- **Clean regulated DC power**
- **12 and 24 Volt models**
- **120/240 Vac/dc autoswitch input**
- **High efficiency off-line switcher**
- **-40° C to +75° C**
- **No fans, no filters**
- **Snap-on DIN Rail Mounting**
- **3 Year Factory Warranty**

ScadaFlex™ DC Power Supplies provide “clean” DC power for Controllers, RTUs and distributed I/O modules. Their high efficiency ensures cool operation over an extra-wide operating temperature range, compatible with ICL Controllers, RTUs and distributed I/O devices. Designed especially for SCADA applications, the outputs are surge rated to accommodate the peak currents required by radios.

Two power supply models are available; providing a choice of 12Vdc or 24Vdc power. The actual power supply output is regulated 13.8Vdc (12 volt version) or 27.6 (24 volt version), for maximum performance from radios and other equipment designed for battery operation. The above nominal output levels also provide plenty of headroom for analog current loops. The DC output power is regulated, filtered and protected from power line transients.

ScadaFlex Power Supplies use the latest high frequency switching technology, accepting a wide range of AC or DC input voltages, without bulky inefficient transformers, selector switches or jumpers.

A battery-backed version of these power supplies is available that enables the RTUs, Controllers and sensors to continue to operate during power outages.



Industrial Control Links
(800) 888-1893 www.iclinks.com

ScadaFlex DC Power Supply

12 VOLT DC Model# 90-0001

DC OUTPUT

Output Voltage:	
<i>Nominal</i>	13.8 Vdc
<i>Range</i>	13.5 Vdc to 14.1Vdc
Output Current:	(55°C to 75°C, derate 2%/°C)
<i>Continuous</i>	3.0 A up to 55°C (1.8A @ 75°C)
<i>Peak</i>	3.5A (10 sec., 25% Duty Cycle)
Overload Protection:	
<i>Current Limit</i>	4.0A
<i>Type</i>	Foldback current limiting

24 VOLT DC Model# 90-0002

DC OUTPUT

Output Voltage:	
<i>Nominal</i>	27.6 Vdc
<i>Range, with External Power</i>	27.0 Vdc to 28.2Vdc
<i>Range, with Battery Power</i>	19.0 Vdc to 27.6Vdc
Output Current:	(55°C to 75°C, derate 2%/°C)
<i>Continuous</i>	1.5 A up to 55°C (0.9A @ 75°C)
<i>Peak</i>	1.75A (10 sec., 25% Duty Cycle)
Overload Protection:	
<i>Current Limit</i>	2.0A
<i>Type</i>	Foldback current limiting

COMMON SPECIFICATIONS

INPUT POWER

Input Voltage	90 to 264 Vac / 130 to 375 Vdc
Input Current	0.50A at 120Vac 0.25A at 240Vac
Recommended Input Fuse	1.0A Slo-Blo (120Vac) 0.5A Slo-Blo (240Vac)
Input Frequency	DC or 47 to 63Hz
Efficiency	approx. 85%, 100% load, 120Vac

DC OUTPUT

Line Regulation	1%, low-line to high-line
Load Regulation	3%, 0% to 100% Load
Ripple and Noise	500mV pk-pk maximum
Hold Time	>20mS at 100% Load
Overload Protection	Foldback Current Limiting Automatic Restart
Isolation	Input to Output >= 2500VAC Input to Ground >= 1500VAC Output to Ground >= 500VDC

ENVIRONMENTAL SPECIFICATIONS

Dimensions	4.2" W x 4.2" L x 2.3" D (105mm x 105mm x 58mm)
Mounting	35mm. DIN rail
Operating Temperature	-40°C to 75°C (-40°F to 167°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5 to 85% RH (non-condensing)

ORDER PART NUMBERS:

90-0001	12Vdc (nominal) DC, 40W DC Power Supply
90-0002	24Vdc (nominal) DC, 40W DC Power Supply