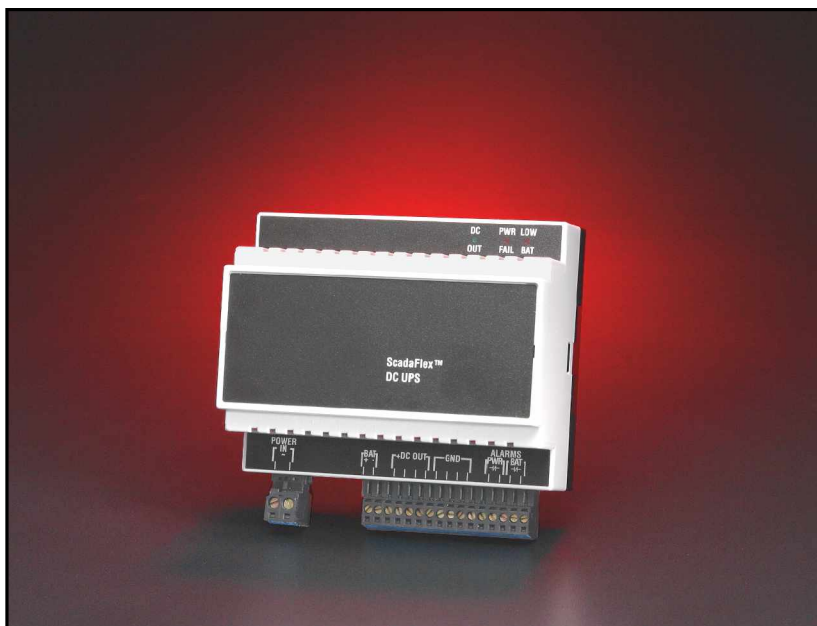




PROCESS CONTROL
REMOTE MONITORING
HVAC CONTROL
WATER & WASTEWATER
OIL & GAS

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



ScadaFlex Uninterruptable DC Power Supply

- *Clean regulated DC power*
- *12 and 24 Volt models*
- *Glitchless power switchover*
- *120/240 Vac/dc autoswitch input*
- *High efficiency off-line switcher*
- *“Smart” battery charging*
- *Deep Discharge Protection*
- *Uses low-cost Gell-Cell batteries*
- *Power Fail Alarm Contact*
- *Low Battery Alarm Contact*
- *-40° C to +75° C operation*
- *No fans, no filters*
- *Snap-on DIN Rail Mounting*
- *3 Year Factory Warranty*

ScadaFlex™ Uninterruptable Power Supplies (UPS) provide “clean” DC power for Controllers, RTUs, distributed I/O modules and sensors. 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.

ScadaFlex Uninterruptable 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.

WITH OUTSIDE POWER . . .

When outside power is available, the power supply output is a regulated 13.8Vdc (12 volt version) or 27.6 (24 volt version), for maximum performance from radios and other battery operated equipment. The DC output power is regulated, filtered and protected from power line transients.

ON BATTERY POWER . . .

When outside power is lost, the ScadaFlex UPS automatically switches over to external backup batteries, providing glitch-free DC power to the control system. A built-in microprocessor constantly monitors the condition of the battery. When the battery reaches the end of its capacity (during an extended power outage), the UPS cleanly switches off power to the control system and prevents deep discharge damage to the battery. The same microprocessor control quickly and safely recharges the battery when outside power is restored. Separate power failure and battery status alarm relay contacts are provided.



Industrial Control Links

(800) 888-1893 www.iclinks.com

ScadaFlex DC UPS

12 VOLT DC Model# 90-0011

DC OUTPUT

Output Voltage:

Nominal	13.8 Vdc
Range, with External Power	13.5 Vdc to 14.1Vdc
Range, with Battery Power	9.5 Vdc to 13.8Vdc

Output Current:

	(55°C to 75°C, derate 2%/°C)
Continuous	2.5 A up to 55°C (1.75A @ 75°C)
Peak	3.0A (10 seconds, 25% Duty Cycle)

Battery Charging Current:

0.5A maximum

Overload Protection:

Current Limit, Type	
with External Power	3.5A, Foldback current limiting
with Battery Power	5.0A (25°C), Self-resetting Polyfuse

BATTERY THRESHOLDS

Battery OK Threshold	> 12.0 Vdc
Low Battery Threshold	<10.5 Vdc
Battery Cut-off Threshold	<10.0 Vdc

24 VOLT DC Model# 90-0012

DC OUTPUT

Output Voltage:

Nominal	27.6 Vdc
Range, with External Power	27.0 Vdc to 28.2Vdc
Range, with Battery Power	19.0 Vdc to 27.6Vdc

Output Current:

	(>55°C, derate 2%/°C up to 75°C)
Continuous	1.25 A up to 55°C (0.75A @ 75°C)
Peak	1.5A (10 seconds, 25% Duty Cycle)

Battery Charging Current:

0.25A maximum

Overload Protection:

Current Limit, Type	
with External Power	1.75A, Foldback current limiting
with Battery Power	2.5A (25°C), Self-resetting Polyfuse

BATTERY THRESHOLDS

Battery OK Threshold	>24.0 Vdc
Low Battery Threshold	<21.0 Vdc
Battery Cut-off Threshold	<20.0 Vdc

COMMON SPECIFICATIONS

INPUT (External) 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

BATTERY SUPPORT (batteries are user supplied)

Supported Battery Technology	Sealed ("Gell-Cell") Lead Acid
Battery Capacity	3AH to 18AH
Battery Charging Technique	Pulsed Constant Current, followed by Constant Voltage Float charge

DC OUTPUT (with external power)

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

ALARM OUTPUTS

Quantity	2 isolated relay contacts
Alarm Action	Normally Closed, Open on Alarm
Alarm Conditions	Alarm Output #1 - Power Fail Alarm Output #2 - Low-Battery
Alarm Relay Contact Ratings	1A @ 30Vdc, 0.5A @ 120Vac

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:

90-0011 12Vdc (nominal) DC, 40W Uninterruptable Power Supply

90-0012 24Vdc (nominal) DC, 40W Uninterruptable Power Supply