



# AUXILIARY POWER \*\*\* UPGRADE KITS FOR TRAFFIC CONTROL CABINETS



**GET PREPARED! BE READY! BE SAFE!**

**\*\*\*EQUIPS TRAFFIC CONTROL CABINETS INSTALLED AT EXISTING INTERSECTIONS WITH TRUE POWER LINE CONDITIONING FOR UTILITY AND AUXILIARY POWER AND ALSO EQUIPS THE CABINET TO RECEIVE PORTABLE GENERATOR/ VEHICLE INVERTER POWER IN EMERGENCY SITUATIONS!!!!!!**

State of the Art  
Technology

Cost Effective  
Solution Providing  
Multiple Benefits

Superior Quality

Fast and Easy  
Installation

Safe  
Reliable/Smart



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**Signal Control Products is proud to offer our high quality, cost effective, easy to install, upgrade kits for use in existing traffic signal control cabinets. This system extends the reliability of the cabinets Electronics in Two Separate Ways. 1- The system is a full line , full time, double conversion power conditioner which cleans utility power 24/7 and acts in one or more ways to consistently deliver proper voltage levels to sensitive and expensive traffic control equipment residing in the cabinet. 2- During utility power failures (black outs, storms, hurricanes or similar events, the traffic cabinet will now be equipped to accept and run on auxiliary power from a PORTABLE GENERATOR or a VEHICLE inverter .**

**Traffic Control Auxiliary Power Upgrade kits mount in/on all types of traffic control cabinets. Models are available to operate cabinets which draw loads of 400 Watt continuous or less OR loads that draw 875 Watt continuous or less. (Additional Models available for Higher Wattage applications. )**

**Installation is “available” by highly qualified Field Technicians at additional cost. Customer is responsible for the coordination and associated costs of police/traffic safety control required at the intersection at time of installation . Contact us for additional information!**



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Technical Specifications/Features For Model # SCP-560-KIT  
For Use In Traffic Control Cabinets Which Draw LESS than 400W  
Continuous Load and SCP Model # SCP-1250LE-KIT For Use In Traffic  
Control Cabinets Which Draw LESS than 875W Continuous Load

## UPC Features

- Standalone Double Conversion 400 W AND 875W continuous load Universal Power Line Conditioners (UPC) deliver constant conditioned AC Power from both Utility or Auxiliary Power Source such as a generator or truck inverter.
- Designed and rated for indoor/outdoor use. Chassis made of corrosion resistant aluminum with sealed front panel
- The 400W UPC is (1.75 "H X 8.5" D X 11" W) . The 875 W UPC is (1.75" H X 8.5" D X 15.25" W ). Both models easily fit in pedestal or base mounted traffic cabinets.
- 400 W UPC weighs less than 5 lbs/875W UPC weighs less than 8 lbs
- System is software defined (no mechanical timers), and is active power factor corrected . Two digital signal processors enable operation of the unit as a true on-line double conversion universal power conditioner (UPC).
- Operates as a 24/7 full line power conditioner without the use of batteries
- The inverter is operational at all times supplying clean regulated power (voltage and frequency) to the load while buffering the hot and neutral from the utility power source

## UPC Features

- System is certified by an independent laboratory to operate from -40c to 74c (-40F to +165F) and shall function at all load levels within its full 400W OR 875W ratings
- The Electronics module uses digital technology and software algorithms to continuously create and control pure sine wave output power.
- The UPC protects all the connected equipments (hot and neutral) against spikes, sags and line noise by continuously converting the utility AC to DC and then regenerating clean AC at a nominal 120 volts 60 HZ.
- Accepts utility power from 75 VAC to 155 VAC and output a stable 120VAC without the use of batteries
- Dual cooling fans in the UPC extend equipment life
- All internal circuit boards have two layers of conformal coating with UV embedded tracer.



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Control Cabinets Which Draw LESS than 875W Continuous Load

## UPC Features

- Windows based PC software is supplied for easy download of event logs, alarms and other similar data to a PC. UPC is supplied with a USB port and connection cables to a PC
- Multi color LED indicators show AC In, AC Out, Alarm and Battery Status
- System accepts input power in the form of a Stepped or Square Sine wave without the use of batteries.
- If input frequency drifts by .4 Hz (as may occur when powering system form generator or inverter) the system shall lock the output at 60HZ (+/- .0005% until the input frequency returns to 60hz +/-2 Hz
- The UPC is equipped with an "on/off" switch.
- The UPC is capable of excepting an "optional" battery harness and batteries at any time .
- Optional" batteries and harness may be added separately and connected to the UPC to achieve a true UPS/Battery Backup system . When used ,the battery charging system is a 3 stage pulse charge technology to maximize battery life. In absence of utility power, system can be "cold started". The 875W system has (2)two independently controlled inverter outputs to switch power to their loads. The 400W system has (1)one.

## Automatic/Manual By-pass Features

- Bypass /Transfer Switch is designed to connect cabinet load /utility power and auxiliary power to the UPC
- The Automatic Power Bypass Module is a separate compact enclosed chassis component and has pluggable Utility input power (hot, neutral, ground), generator input, Load Output power (hot, neutral and ground) connectors and AC Input/Output connectors to the UPC. Overall dimensions do not exceed 5.25"x7.50"x1.75"
- The Bypass module also includes a connector interface that allows an external auxiliary power source (generator or vehicle inverter) to be plugged into the UPC system to provide auxiliary power. The bypass module automatically transfers power from Utility to the active Auxiliary power source and back to utility once the auxiliary power has been removed.
- The Auxiliary Power Source connection can be connected or disconnected to the Bypass without the use of any tools. Disconnecting the Auxiliary power source from the Bypass/Transfer Switch Module does not shut down or affect the full operation of the UPC
- Auxiliary Power will act as the primary power source when both the Auxiliary and Utility Power Sources are present. Removing the Auxiliary Power Source will then automatically transfer power back to Utility when present.
- Manufacturer of the device is ISO9001:2008 certified
- Two Year Manufacturers Warranty

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For Use In Traffic Control Cabinets Which Draw LESS than 400W  
Continuous Load and SCP Model # SCP-1250LE-KIT For Use In Traffic  
Control Cabinets Which Draw LESS than 875W Continuous Load

## Accessories Features

\*Also for Model SCP-PIM30G-KIT

- Nema 3R .125" 5052-H32 aluminum alloy generator/auxiliary power enclosure includes a factory installed Nema L5-30P flange mount 2W3P 125 VAC twist lock male inlet . It has a hinged door that is capable of being locked in the closed position with or without the generator/auxiliary cord connector inserted.
- The enclosure is field installable to any side of the existing cabinet. It attaches with four (4) .375" diameter stainless steel hex head cap bolts, washers and hex nuts. It is sealed with a closed cell neoprene gasket.
- The generator/Aux power enclosure has a lockable door and is keyed the same as a police door on a conventional traffic controller cabinet. A single police key is provided.
- A template of the externally mounted generator/auxiliary power enclosure is provided indicating all cutout and mounting hole locations

## Accessories Features

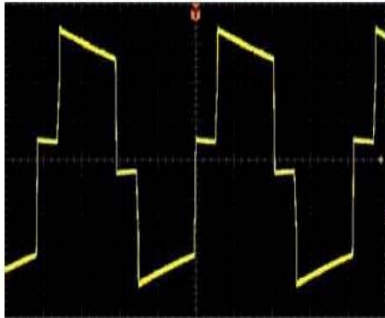
\*Also for Model SCP-PIM30G-KIT

- A 15 foot oil resistant SJTOW 10 AWG power cord is supplied for storage in the compartment of the existing traffic control cabinet. One end of the cord is provided with a factory wired Nema L5-30R 30A 125 VAC 2W3P female twist lock connector. The other end of the cord is wired with a L5-30P, 30A, 125VAC 2W3P twist lock male Plug OR (as requested by customer at time of order)
- A permanent vandal-proof stainless steel U type bolt and hardware is provided for mounting to the bottom of the traffic control cabinet . It secures the generator (provided by others) to the traffic control cabinet. The device is field installable and can pass a 5/16" chain thru its opening.
- A 1" round panel mount LED is included for mounting on the outside of the cabinet . It will act as a Utility Power "on" indication
- Documentation and wiring schematics are included .

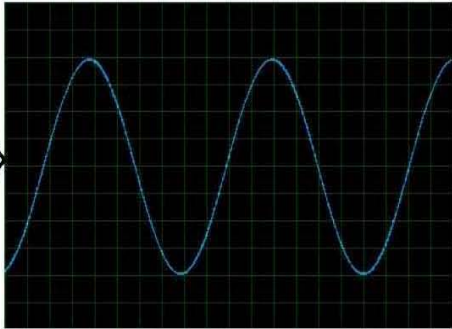


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# Important Features !



Typical power that can be produced from a Portable Generator or Vehicle Inverter going into the Clary System



Clean Output Power from the Clary System going into your Traffic Signal Equipment

- ***The Universal Power Conditioner (UPC) and Bypass Switch offer the user an additional "Option" to add Battery Backup Power to the traffic control cabinet. A "Battery Harness Assembly" and "Batteries" can be added to the UPC system at any time. When the existing traffic control cabinet does not have sufficient room to house the batteries, many additional types of battery enclosures are available and may be ordered separately***

- ***56"Hx26"Wx12"D (other options also available)***



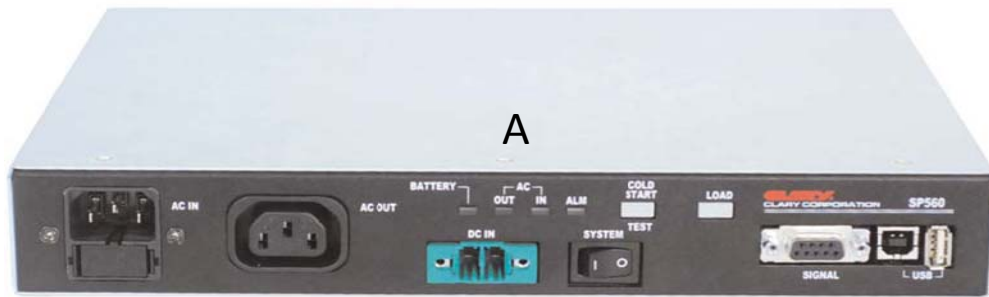
- ***Consult SCP for further information regarding this OPTION!***



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# Model # SCP-560-KIT

## For Traffic Control Cabinets With Less Than 400W Continuous Load



**Signal Control Products, Inc.**  
*...Proudly serving the traffic system needs of New Jersey and Eastern Pennsylvania for over 30 years.*

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A-UPS for <400W Continuous Load Cabinets  
 B- Automatic By-pass Switch for Auxiliary Power Input  
 C-Bolt On Enclosure with 30A L5-30P 2W3P 125VAC male inlet for Auxiliary Power input/Locking police key door  
 D-Security U bolt to secure Auxiliary Power source to cabinet  
 E-LED Indicator Light to identify "Utility On"  
 F- Fifteen Foot oil resistant SJTOW 10 AWG power cord w/one end factory wired 30A 125VAC 2W3P Nema L5-30R female locking connector. Opposite end of the cord is wired with a L5-30P, 30A, 125VAC 2W3P twist lock male Plug OR (as requested by customer at time of order)  
 G- Wiring harnesses and connectors for above equipment (not shown)  
 NOTE: Generator/Security Chain and Lock supplied by others

# Model # SCP1250-LE-KIT For Traffic Control Cabinets With Less Than 875W Continuous Load

A



B



C



D



E



F



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A-UPC for <875W Continuous Load Cabinets  
B- Automatic By-pass Switch for Auxiliary Power Input  
C-Bolt On Enclosure with 30 A L5-30P 2w3p125VAC male inlet  
for Auxiliary Power input/Locking police key door  
D-Security U bolt to secure Auxiliary Power Source to cabinet  
E-LED Indicator Light to identify "Utility On"  
F- Fifteen Foot oil resistant SJTOW 10 AWG power cord w/one  
end factory wired 30A 125VAC 2W3P Nema L5-30R female  
locking connector. Opposite cord of the cord is wired with a L5-  
30P, 30A, 125VAC 2W3P twist lock male Plug OR (as requested  
by customer at time of order)  
G- Wiring harnesses and connectors for above equipment (not  
shown)  
NOTE: Generator/Security Chain and Lock supplied by others



## Model # SCP-PIM30G-KIT

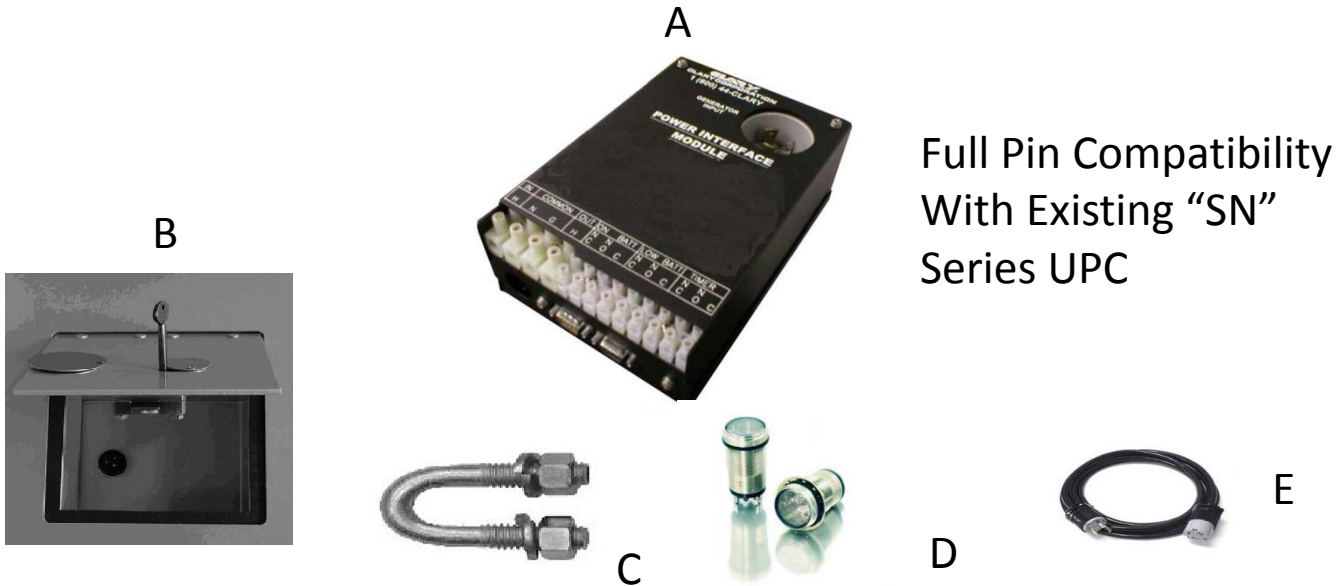
Traffic Control Auxiliary (Generator/Truck Inverter) Upgrade Kit For Use In Traffic Control Cabinets Which Currently Have The Following UPS Equipment

Installed :

Model SP1000SN (Plus) 875W and a PIM30C Module OR

Model SP1250SN (Plus) 875W with 1400W for 10 seconds and a PIM30C Module  
OR

Model SP2000SN 1400W with a PIM30C Module



A- Power Interface Module for Auxiliary Power Input replaces existing PIM30C module currently installed in existing Traffic Control Cabinet  
B-Bolt On Enclosure with 30A L5-30P 2w3p125VAC male inlet for Auxiliary Power input/Locking police key door  
C-Security U bolt for securing Auxiliary Power Source to Cabinet  
D-LED Indicator Light to identify "Utility On"  
E- Fifteen Foot oil resistant SJTOW 10 AWG power cord w/one end factory wired 30A 125VAC 2W3P Nema L5-30R female locking connector. Opposite end of the cord is wired with a L5-30P, 30A, 125VAC 2W3P twist lock male Plug OR (as requested by customer at time of order)  
F- Wiring harnesses and connectors for above equipment (not shown)  
NOTE: Generator/Security Chain and Lock supplied by others



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PRODUCT**

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**NEW  
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Let “Signal Control Products “ show you how to meet your towns “**GREEN**” Goals & Initiatives with our Supplemental Solar Power and Component Package

Designed for Traffic Signal Intersections /Charging Battery Backup Systems and Similar Applications



Contact Us Today For Additional Information



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