

# SP Series Power Interface Module

## Power Interface Module (PIM) For SP1000SR/SN, SP1250SR/SN and SP2000SR/SN Models



### Power Interface Module (PIM)

The Power Interface Module (PIM) is designed and manufactured to interface cabinet utility power to the SP Series UPS traffic system and to control the output utility power within the cabinet. The PIM's primary element is a magnetic contactor that is controlled by the UPS system. The UPS constantly monitors utility power and when available, feeds that power through the PIM, to the utility input of the UPS. The UPS operates in two distinct modes, a Standby Mode and an On-line Mode. In the Standby Mode when the utility power fails, the PIM will automatically switch the UPS generated power to power the traffic cabinet. In the Online Mode, conditioned, regenerated power is supplied to the cabinet via the UPS inverter. In the event of utility failure, the inverter will seamlessly switch (no measurable delay) from utility power to battery power. Additionally, should the UPS inverter ever fail the PIM will automatically by pass the inverter and switch utility power to the cabinet.

### Standard Models

- PIM30C**  
Standard PIM with 30 amp magnetic contactor includes PIM and PIM to UPS interface cable.
- PIM30G**  
Optional version with support for external generator input. Includes PIM, PIM to UPS cable, and generator interface cable with 30 amp receptacle with hinged, lockable, weather proof cover.
- PIM30R**  
**Optional** version with support for single duplex Ground Fault Isolated (GFI) receptacle. Includes PIM, PIM to UPS cable
- PIM30GR**  
Optional version with support for external generator input. Includes PIM, PIM to UPS cable, and generator interface cable with 30 amp receptacle with hinged, lockable, weather proof cover and duplex Ground Fault Isolated (GFI) receptacle.
- PIM60A**  
Optional PIM with 60 amp Mercury relay. Includes PIM and PIM to UPS interface cable.
- PIM60T**  
Optional PIM with 60 amp Mercury relay. Includes PIM and PIM to UPS interface cable and PIM mechanical timer.



BBS Cabinets for Traffic Signal Applications

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SP Series BBS Cabinet Specifications

# SP Series PIM Specifications



## PIM30C

**Standard** Power Interface Module (PIM) utilizing magnetic contactor in the place of the mercury relay to control system power. This is the default PIM and is supplied with all SP orders. Unit supports SP based timer functions. Normally mounts to traffic cabinet mounting rails, but can be mounted anywhere within the cabinet and is not orientation specific, can be mounted in any plane or angle to support installation requirements. 120VAC in, 120VAC out, Physical Dimensions are 3.2" x 5.8" x 9" (D x W x H).



## PIM30G

**Optional** Power Interface Module (PIM) utilizing magnetic contactor in the place of the mercury relay to control system power. Normally mounts to traffic cabinet mounting rails, but can be mounted anywhere within the cabinet and is not orientation specific, can be mounted in any plane or angle to support installation requirements. This PIM is unique in that it also supports an interface to generator systems via special cable (included) and special watertight 30 amp receptacle and cover (included) for mounting on traffic or BBS cabinet. 120VAC in, 120VAC out, Physical Dimensions are 3.2" x 5.8" x 9" (D x W x H).

## PIM30R

**Optional** Power Interface Module (PIM) utilizing magnetic contactor in the place of the mercury relay to control system power. Normally mounts to traffic cabinet mounting rails, but can be mounted anywhere within the cabinet and is not orientation specific, can be mounted in any plane or angle to support installation requirements. This PIM is unique in that it supports a single duplex Ground Fault Isolated 120VAC plug with 20 amp circuit breaker which is connected to the utility power. 120VAC in, 120VAC out, Physical Dimensions are 3.2" x 5.8" x 9" (D x W x H).



## PIM30GR

**Optional** Power Interface Module (PIM) utilizing magnetic contactor in the place of the mercury relay to control system power. Normally mounts to traffic cabinet mounting rails, but can be mounted anywhere within the cabinet and is not orientation specific, can be mounted in any plane or angle to support installation requirements. This PIM is unique in that it also supports an interface to a generator system via special cable (included) and special watertight receptacle and cover (included) for mounting on traffic or BBS cabinet as well as a duplex Ground Fault Isolated 120VAC plug with 20 amp circuit breaker which is connected to the utility power. 120VAC in, 120VAC out, Physical Dimensions are 3.2" x 5.8" x 9" (D x W x H).

## PIM60A

**Optional** Power Interface Module (PIM) which utilized mercury relay to control system power. Unit only available as a special order or service item and is not the default PIM. Normally mounts to traffic cabinet mounting rails, but can be mounted anywhere as long as vertical alignment is maintained. 120VAC in, 120VAC out, Physical Dimensions are 3.2" x 5.8" x 9" (D x W x H).



## PIM60T

**Optional** Power Interface Module (PIM) utilized mercury relay to control system power. Unit adds mechanical timer. Unit only available as a special order or service item and is not the default PIM. Normally mounts to traffic cabinet mounting rails, but can be mounted anywhere as long as vertical alignment is maintained. 120VAC in, 120VAC out, Physical Dimensions are 3.2" x 5.8" x 9" (D x W x H).