



# PSP

PRODUCTS, INC



**CUTTING EDGE - INNOVATIVE - NEXT GENERATION**

**PSP PRODUCTS IS EXCELLENCE  
IN POWER QUALITY SOLUTIONS**

**SURGE PROTECTION / LOAD SHEDDING**

# PSP Products is Excellence in Surge Protection Devices

All of PSP's Surge Protection Devices are designed, tested and built to deliver consistent and superior performance for decades. In addition to excellent performance, function and protection, they also carry some of the best warranties in the industry. The unique, hybrid design allows these units to perform as well as new, even after years in extreme power and environmental conditions.

## Vortex™ Series A

120 VAC

240-277 VAC

480 VAC



VA1S-050-4XP



VA4S-050-4XP



VA5S-050-4XP

## Features

- Small footprint
- Nipple mount or bracket mount installation
- I<sub>max</sub>: 50 kA
- In: 10 kA
- SCCR: 100kAIC
- Thermally fused Metal Oxide Varistor suppression
- UL recognized component
- NEMA 4X indoor/outdoor enclosure
- LED diagnostic indicator
- 25 Year Warranty

## Vortex™ Series B



VB1-80-4XP

## Features

- UL 1449 4th Edition Type 1 listed
- I<sub>max</sub>: 80 kA per phase
- Thermally fused Metal Oxide Varistor suppression with Gas-Tube technology
- Real-time per phase LED indicators and audible alarm
- Push to silence alarm button
- NEMA 4X (IP66) indoor/outdoor rated enclosure
- In: 20 kA
- Short Circuit Current Rating (SCCR) 200 kAIC
- Lead Length: 18"/#12 AWG
- Meets UL 96A Lightning Protection Master Label
- Designed to allow installation inside of electrical panel
- Flush mount cover option
- Lifetime Warranty

# Hurricane Series

## Hurricane 2000



HC1C100-06N  
Single-Phase  
General Purpose SPD



HGEN100-06N  
Single-Phase  
Gen. Transfer Switch SPD



HCxC100-06N  
Three-Phase  
Commercial/Residential  
SPD

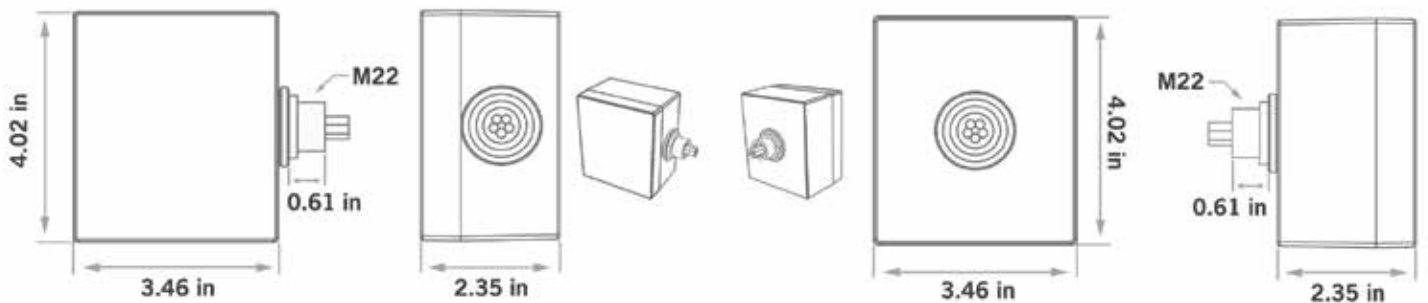
### Features

- UL 1449 4th Edition Type 1 listed
- I<sub>max</sub>: 100 kA per phase
- Thermally fused Metal Oxide Varistor suppression with Gas-Tube technology
- Real-time per phase LED indicators and audible alarm
- NEMA 6 (IP66) indoor/outdoor rated enclosure
- In: 20 kA
- Short Circuit Current Rating (SCCR) 150 kAIC
- Lead Length: 24" / #12 AWG
- Meets UL 96A Lightning Protection Master Label
- Designed to allow installation inside of electrical panel
- Lifetime Warranty - single phase / 25 Year Warranty - three phase

### Dimensions

Version A - Standard

Version B - Custom Order



1/2" NPT adapter included

## Part Number Breakdown

Hxxx100-06N-x

• Add on options: F=Flush Mount Cover

• Voltage Identifier: **C1C**=120/240 single phase, **GEN**=120/240 single phase, **C2C**=120/208 3-phase Wye, **C4C**=277/480 3-phase Wye, **C5C**=480 3-phase Delta, **C6C**=347/600 3-Phase Wye, **C7C**=600 3-Phase Delta, **C9C**=240 3-Phase Delta

## Specifications

Description			HC1C100-06N	HGEN100-06N	HC2C100-06N	HC4C100-06N	HC5C100-06N	HC6C100-06N	HC7C100-06N	HC9C100-06N
System Voltage	VAC		120/240	120/240	120/208	277/480	480	347/600	600	240
System Wiring			3W+G (Single Phase)	3W+G (Single Phase)	4W+G (3-Phase Wye)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)	3W+G (3-Phase Delta)
Maximum Operating Voltage	MCOV (V)	L-N	140	140	140	320		550		
		N-G	120	120	120	240		550		
		L-G	140	140	140	320	550	550	750	275
		L-L	280	280	280	550	550	750	750	275
Voltage Protection Rating	VPR (V)	L-N	700	700	700	1200		1800		
		N-G	1200	1200	1200	1200		1800		
		L-G	1200	1200	1200	1500	1500	1800	2000	1500
		L-L	1200	1200	1200	2500	2500	1800	2000	2000
Operating Current	Ic		<10 mA	<10 mA	<10 mA	<10 mA	<30 mA	<10 mA	<30 mA	<30 mA
Follow Current	If		None							
Maximum Leakage Current	Ipe		1 mA							
Maximum Recommended Fuse if any	Rating		200 A, Class J							
Frequency	f		50/60/400 Hz							
Nominal Discharge Current per mode	In (8/20 μs)		20 kA							
Maximum Discharge Current per phase	I <sub>max</sub> (8/20 μs)		100 kA							
Short Circuit Current Rating	SCCR		150 kA							
Standard's Compliance or Recognition			UL 1449 4th Edition Type 1 listed, cUL listed							
EMI/RFI Filtering			1283 Electromagnetic Interference Filter (-40 dB)							
Thermal Disconnecter			Internal to each Component							
Overload Disconnecter			Internal to each Device							
Failure Indicators			LED & Audible Alarm							
Operating Temperature			-40 to +185°F (-40 to +85°C)							
Housing-Enclosure Material			Cast Aluminum							
Mounting Type			Nipple Mount							
Environmental Rating			NEMA 6, IP65, IP66							
Installation Location			Indoor/Outdoor							

# Hurricane Series

## Hurricane 3000



Nipple Mount Version



Flush Mount Version



Hardwire Version

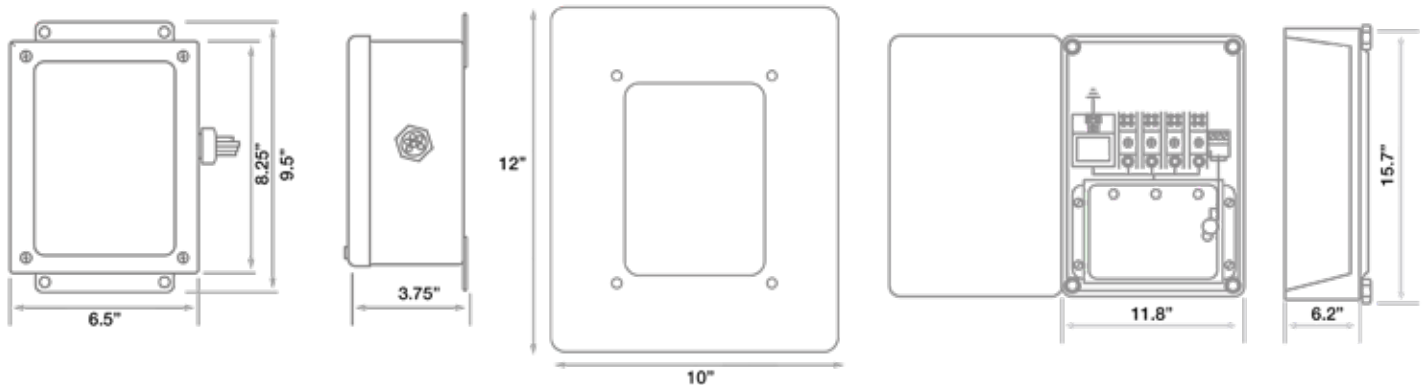
### Features

- UL 1449 4th Edition Type 2 listed
- I<sub>max</sub>: 100 - 200 kA per phase
- Real-time per phase LED indicators, audible alarm & remote contacts
- Sine Wave Tracking
- Short Circuit Current Rating (SCCR) 200 kAIC
- Lead Length: 36" / #10 AWG
- EMI/RFI noise filtration
- NEMA 4 steel nipple mount enclosure standard
- 10 Year Product Warranty

### Options

- Surge counter - hardwire version ONLY
- NEMA 4X polycarbonate enclosure - hardwire version ONLY
- Integral disconnect (internal or external) - hardwire version ONLY
- NEMA 4X stainless steel - nipple mount version ONLY
- Flush Mount Cover - nipple mount version ONLY
- 25 Year Warranty upgrade available on all versions

### Dimensions



**Part Number Breakdown**

HxCx00-xxx-xxx

- **Add on options:** **S**=Surge Counter, **F**=Flush Mount Cover, **I**=Internal Disconnect, **E**=External Disconnect
- **NEMA Rating/Mounting Type:** **04N**=NEMA 4/Nipple, **4XN**=NEMA 4X Stainless/Nipple, **4XH**=NEMA 4X/Polycarbonate/Hardwire
- **Surge Rating Identifier:** **1**=100 kA/phase or **2**=200 kA/phase
- **Voltage Identifier:** **1**=120/240 single phase, **2**=120/208 3-phase Wye, **3**=120/120/240 3-phase Hi-Leg Delta, **4**=277/480 3-phase Wye, **5**=480 3-phase Delta, **6**=347/600 3-phase Wye, **7**=600 3-phase Delta, **8**=220/380 3-phase Wye, **9**=240 3-phase Delta

**Specifications**

Description			H1Cx00-xxx-xxx	H2Cx00-xxx-xxx	H3Cx00-xxx-xxx	H4Cx00-xxx-xxx	H5Cx00-xxx-xxx	H6Cx00-xxx-xxx	H7Cx00-xxx-xxx	H8Cx00-xxx-xxx	H9Cx00-xxx-xxx
System Voltage		VAC	120/240	120/208	120/120/240	277/480	480	347/600	600	220/380	240
System Wiring			3W+G (Single Phase)	4W+G (3-Phase Wye)	4W+G (3-Phase Hi-Leg Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)
Maximum Operating Voltage	MCOV (V)	L-N	150	150	150/275	320		550		275/550	
		N-G	150	150	150	320		550		275	
		L-G	150	150	150/275	320	550	550	750	275	275
		L-L	300	300	275	550	550	750	750	550	275
Voltage Protection Rating	VPR (V)	L-N	800	800	800/1200	1200		1800		1200	
		N-G	800	800	800/1200	1200		1800		1200	
		L-G	900	900	800/1200	1500	1800	1800	2000	1500	1500
		L-L	1800	1800	1800	2000	1800	1800	2000	2000	2000
Operating Current	Ic	<10 mA	<10 mA	<30 mA	<10 mA	<30 mA	<10 mA	<30 mA	<10 mA	<30 mA	
Follow Current	If	None									
Maximum Leakage Current	Ipe	1 mA									
Maximum Recommended Fuse if any	Rating	200 A Class J									
Frequency	f	50/60/400 Hz									
Nominal Discharge Current per mode	In (8/20 μs)	10 kA									
Maximum Discharge Current per phase	I <sub>max</sub> (8/20 μs)	100-200 kA (Depending on Model)									
Short Circuit Current Rating	SCCR	200 kA									
Standard's Compliance or Recognition	.	UL 1449 4th Edition Type 2 listed, cUL listed									
EMI/RFI Filtering		1283 Electromagnetic Interference Filter (-40 dB)									
Thermal Disconnect		Internal to each Mode									
Overload Disconnect		Internal to each Device									
Failure Indicators		LED, Audible Alarm & Remote Signaling									
Operating Temperature		-40 to +185°F (-40 to +85°C)									
Housing-Enclosure Material		Nipple Version: NEMA 4 Steel or NEMA 4X Stainless Steel / Hardwire Version: NEMA 4X Polycarbonate									
Mounting Type		Nipple Mount or Wall Mounting by Screws (not included)									
Environmental Rating		IP65									
NEMA Rating		NEMA 4/12, NEMA 4X									
Installation Location		Indoor/Outdoor									



# Hurricane Series

## Hurricane 4000



Nipple Mount Version



Flush Mount Version



Hardwire Version

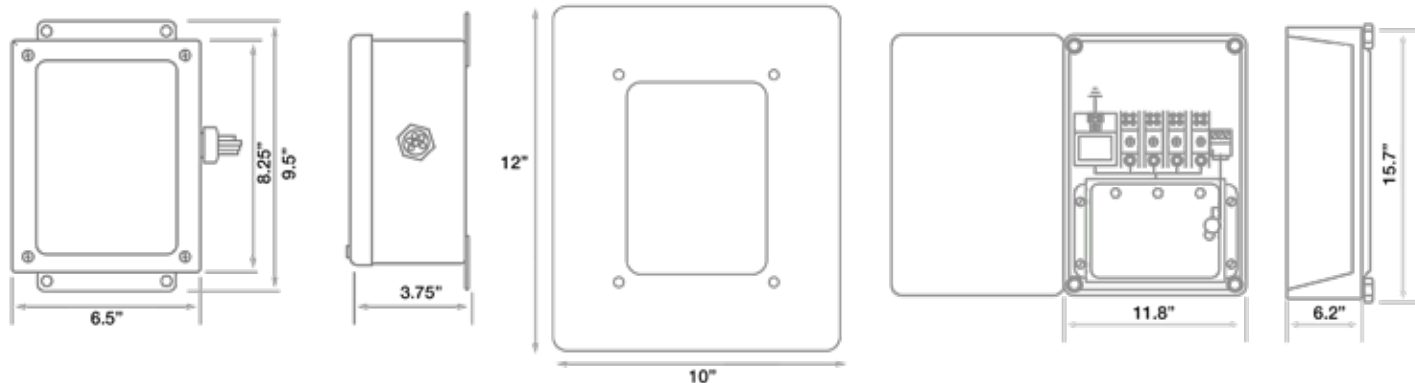
### Features

- UL 1449 4th Edition Type 1 listed
- I<sub>max</sub>: 200-400 kA per phase
- Thermally fused Metal Oxide Varistor suppression with Gas-Tube technology
- Real-time per phase LED indicators, audible alarm, remote contacts
- Smart diagnostic, indicating remaining surge capacity
- Sine Wave Tracking
- Short Circuit Current Rating (SCCR) 200 kAIC
- Lead Length: 36" / #10 AWG
- EMI/RFI noise filtration
- NEMA 4 steel nipple mount enclosure standard
- 25 Year Warranty

### Options

- Surge Counter - available on ALL versions
- NEMA 4X polycarbonate enclosure - hardwire version ONLY
- Integral disconnect (internal or external) - hardwire version ONLY
- NEMA 4X stainless steel - nipple mount version ONLY
- Flush Mount Cover - nipple mount version ONLY

### Dimensions





## Part Number Breakdown

HxCx00-xxxT1-x

- **Add on options:** S=Surge Counter, F=Flush Mount Cover, I=Internal Disconnect, E=External Disconnect
- **NEMA Rating/Mounting Type:** 04N=NEMA 4/Nipple, 4XN=NEMA 4X Stainless/Nipple, 4XH=NEMA 4X/Polycarbonate/Hardwire
- **Surge Rating Identifier:** 2=200 kA/phase, 3=300 kA/phase, 4=400 kA/phase
- **Voltage Identifier:** 1=120/240 single phase, 2=120/208 3-phase Wye, 3=120/120/240 3-phase Hi-Leg Delta, 4=277/480 3-phase Wye, 5=480 3-phase Delta, 6=347/600 3-phase Wye, 7=600 3-phase Delta, 8=220/380 3-phase Wye, 9=240 3-phase Delta

## Specifications

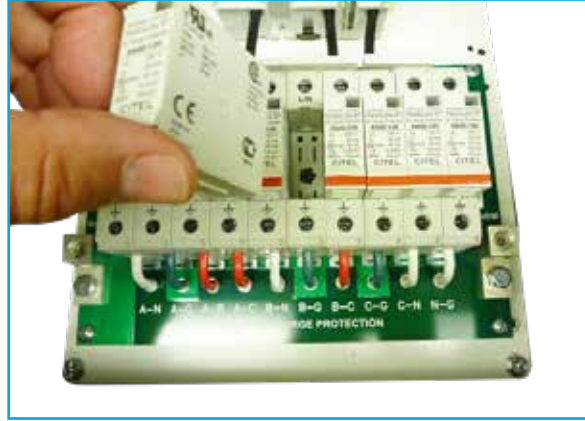
Description			H1Cx00-xxxT1-x	H2Cx00-xxxT1-x	H3Cx00-xxxT1-x	H4Cx00-xxxT1-x	H5Cx00-xxxT1-x	H6Cx00-xxxT1-x	H7Cx00-xxxT1-x	H8Cx00-xxxT1-x	H9Cx00-xxxT1-x
System Voltage		VAC	120/240	120/208	120/120/240	277/480	480	347/600	600	220/380	240
System Wiring			3W+G (Single Phase)	4W+G (3-Phase Wye)	4W+G (3-Phase Hi-Leg Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)
Maximum Operating Voltage	MCOV (V)	L-N	150	150	150/320	320		550		275	
		N-G	150	150	150	320		550		275	
		L-G	150	150	150/320	320	550	550	750	275	275
		L-L	300	300	320	550	550	750	750	550	275
Voltage Protection Rating	VPR (V)	L-N	700	700	700/1200	1000		1800		1000	
		N-G	700	700	700/1200	1000		1800		1000	
		L-G	700	700	700/1200	1000	1800	1800	1800	1000	1000
		L-L	1000	1000	1000/3000	1800	3000	3000	3000	1800	1800
Operating Current	Ic	<10 mA	<10 mA	<30 mA	<10 mA	<30 mA	<10 mA	<30 mA	<10 mA	<30 mA	
Follow Current	If	None									
Maximum Leakage Current	Ipe	1 mA									
Maximum Recommended Fuse if any	Rating	200 A, Class J									
Frequency	f	50/60/400 Hz									
Nominal Discharge Current per mode	In (8/20 μs)	20 kA									
Maximum Discharge Current per phase	I <sub>max</sub> (8/20 μs)	200-400 kA (Depending on Model)									
Short Circuit Current Rating	SCCR	200 kA									
Standard's Compliance or Recognition		UL 1449 4th Edition Type 1 listed, cUL listed									
RFI Filtering		1283 Electromagnetic Interference Filter (-40 dB)									
Thermal Disconnecter		Internal to each Component									
Overload Disconnecter		Internal to each Device									
Failure Indicators		LED, Audible Alarm, Remote Signaling & Remaining Life Indicator									
Operating Temperature		-40 to +185°F (-40 to +85°C)									
Housing-Enclosure Material		Nipple Version: NEMA 4 Steel or NEMA 4X Stainless Steel Hardwire Version: NEMA 4X Polycarbonate									
Mounting Type		Nipple Mount or Wall Mounting by Screws (not included)									
Environmental Rating		IP65									
NEMA Rating		NEMA 4/12, NEMA 4X									
Installation Location		Indoor/Outdoor									

# Hurricane Series

## Hurricane 5000



Hurricane 5000



Field replaceable modules

### Features

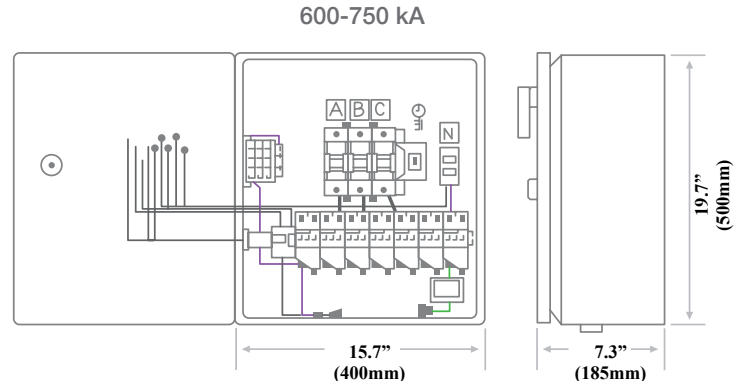
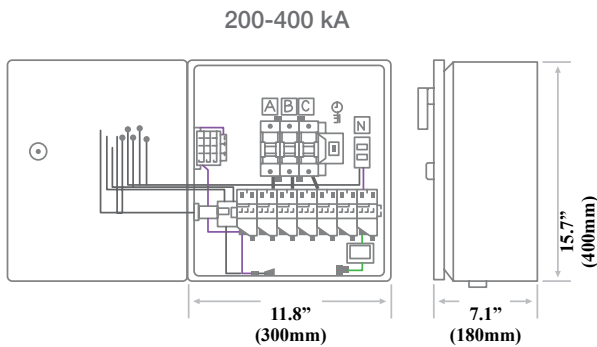
- UL 1449 4th Edition Type 1 listed
- I<sub>max</sub>: 200-750 kA per phase
- Thermally fused Metal Oxide Varistor suppression with Gas-Tube technology
- Real-time LED indicators, audible alarm with silence remote contacts, push to test & surge counter with reset
- Sine Wave Tracking
- Short Circuit Current Rating (SCCR) 200 kAIC
- EMI/RFI noise filtration
- Field replaceable modules

- Available in 7 and 10 mode configurations
- NEMA 4 steel enclosure standard
- 10 Year Product Warranty

### Options

- NEMA 4X polycarbonate enclosure
- Integral disconnect
- NEMA 4X stainless steel
- 15 & 25 Year Warranty upgrade available on all versions

### Dimensions



Part Number Breakdown

HxCx00-xxx-xM-x

- Add on options: **I**=Internal Disconnect, **E**=External Disconnect
- Protection Modes: **A**=All-Mode (10 mode), **Leave Blank**=7 Mode
- NEMA Rating: **04H**=NEMA 4, **4XS**=NEMA 4X Stainless, **4XP**=NEMA 4X Polycarbonate
- Surge Rating Identifier: **2**=200 kA/phase, **3**=300 kA/phase, **4**=400 kA/phase, **6**=600 kA/phase, **7**=750 kA/phase
- Voltage Identifier: **1**=120/240 single phase, **2**=120/208 3-phase Wye, **3**=120/120/240 3-phase Hi-Leg Delta, **4**=277/480 3-phase Wye, **5**=480 3-phase Delta, **6**=347/600 3-phase Wye, **7**=600 3-phase Delta, **8**=240/415 3-phase Wye, **9**=240 3-phase Delta

Specifications

Description			H1Cx00-xxx-xM-x	H2Cx00-xxx-xM-x	H3Cx00-xxx-xM-x	H4Cx00-xxx-xM-x	H5Cx00-xxx-xM-x	H6Cx00-xxx-xM-x	H7Cx00-xxx-xM-x	H8Cx00-xxx-xM-x	H9Cx00-xxx-xM-x
System Voltage		VAC	120/240	120/208	120/120/240	277/480	480	347/600	600	220/380	240
System Wiring			3W+G (Single Phase)	4W+G (3-Phase Wye)	4W+G (3-Phase Hi-Leg Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)
Maximum Operating Voltage	MCOV (V)	L-N	150	150	150/320	320		550		275	
		N-G	150	150	150	320		550		275	
		L-G	150	150	150/320	320	550	550	750	275	275
		L-L	300	300	320	550	550	750	750	550	275
Voltage Protection Rating	VPR (V)	L-N	800	800	800/1200	1200		1800		1200	
		N-G	800	800	800/1200	1200		1800		1200	
		L-G	900	900	800/1200	1500	1800	1800	2000	1500	1200
		L-L	1800	1800	1800	2000	3000	3000	2000	2000	2000
Operating Current	Ic	<10 mA	<10 mA	<30 mA	<10 mA	<30 mA	<10 mA	<30 mA	<10 mA	<30 mA	
Follow Current	If	None									
Maximum Leakage Current	Ipe	1 mA									
Maximum Recommended Fuse if any	Rating	200 A									
Frequency	f	50/60/400 Hz									
Nominal Discharge Current per mode	In (8/20 μs)	20 kA									
Maximum Discharge Current per phase	I <sub>max</sub> (8/20 μs)	200-750 kA (Depending on Model)									
Short Circuit Current Rating	SCCR	200 kA									
Standard's Compliance or Recognition		UL 1449 4th Edition Type 1 listed, cUL listed									
RFI Filtering		1283 Electromagnetic Interference Filter (-40 dB)									
Thermal Disconnecter		Internal to each Component									
Overload Disconnecter		Internal to each Device									
Failure Indicators		LED, Audible Alarm with Silence & Remote Signaling									
Operating Temperature		-40 to +185°F (-40 to +85°C)									
Housing-Enclosure Material		NEMA 4 Steel, NEMA 4X Stainless Steel or NEMA 4X Polycarbonate									
Mounting Type		Wall Mounting by Screws (not included)									
Environmental Rating		IP65									
NEMA Rating		NEMA 4/12, NEMA 4X									
Installation Location		Indoor/Outdoor									

# PSP Products is Excellence in Generator Load Management

**Cutting Edge - Innovative - Next Generation** are all terms that have been used to describe PSP Products' Load Management Systems.

Our line of ***"Industry Firsts"*** includes Magnetic Latching Relays instead of contactors to eliminate hum and chatter, extend unit life and control loads up to 200A. Universal 4 - 12 channel controllers and wireless load drop controllers for both 24V and 240V systems up to 50A are a few of several other PSP innovations.

## Residential / Commercial

## 100 &amp; 200 Amp Single Phase Magnetic Latching Relays



LS101X1BX



LS201X1BX



LS102X1BX

## Features

- **LOAD MANAGEMENT** - Universal relays work with ANY generator, transfer switch or control circuit to manage loads
- **LOAD DROPPING** - Automatically removes loads when utility power is lost, and reconnects loads after a 5 minute delay when utility power is restored and needs no control board
- Utilizes magnetic latching relays, eliminating the normal humming, chattering and heat associated with contactors
- 100 AMP version available in a 1, 2, 3 or 4 relay configuration (2, 3 & 4 relay configuration - LOAD DROPPING ONLY)
- Available in NEMA 3R enclosures and stainless steel
- 5 year warranty on magnetic latching relays

## Specifications

Electrical	100 Amp	200 Amp
Rated load at 277 Volts	120 Amps	200 Amps
Max. continuous operating AC voltage	480 Volts	480 Volts
Insulation resistance	1,000 MΩ (at 500 VDC)	1,000 MΩ (at 500 VDC)
<b>Dielectric strength</b>		
Coil to contact	4,000 VAC for 1 min	4,000 VAC for 1 min
Across open contacts	2,500 VAC for 1 min	2,500 VAC for 1 min
Max. switching current	120 Amps	240 Amps
Max. switching power	27,700 VA	55,700 VA
<b>UL 508 A</b>		
Ith	160 Amps	240 Amps
Max. hp at 240 Volts AC single phase	15 hp	30 hp
<b>IEC-60947</b>		
AC1 load	150 Amps	300 Amps
AC2 load 200-240 Volts	30 kW/105 Amps	60 kW/210 Amps
<b>Mechanical</b>		
Connection terminal	Mechanical lugs	Mechanical lugs
Operation temperature (°C)	-40 to +85	-40 to +85
Enclosure type	NEMA 1, 3R	NEMA 3R
Control input	120 VAC, 24 VAC or dry contacts	120 VAC, 24 VAC or dry contacts
Warranty	5 years on Magnetic Latching Relays	5 years on Magnetic Latching Relays

## CX Series

## Universal Load Shedding Panel with Integrated Load Logic Controller

Available models: LS10114CX- (4) 100 Amp Circuit Load Management System

LS10112CX- (2) 100 Amp Circuit Load Management System



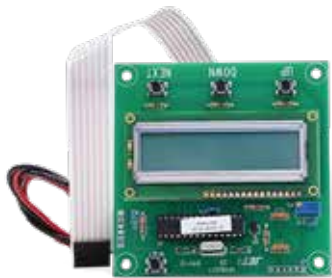
LS10114CX

## Features

- Universal load shedding system works with ANY generator or transfer switch in managing 2-4 circuits from 20 to 100 Amps each and up to 2 HVAC systems using low voltage circuits
- Field programmable using installer programming tool
- Utilizes CT inputs for precision load management and to reduce the possibility of overloading generators
- Program adjustments include: generator available amperage, start up delay, amperage of each load
- Utilizes Magnetic Latching Relays eliminating the normal humming, chattering and heat associated with contactors
- Available in a variety of enclosure configurations including NEMA 1, NEMA 3R and Stainless Steel
- Compact flush mount version fits inside of studs and optional flush mount cover extends 3/4" past edge of can on all 4 sides for finished walls
- 5 year warranty on Magnetic Latching Relays

## Specifications

Electrical	
Rated Load at 277 Volts	120 Amps
Maximum Continuous Operating AC Voltage	480 Volts
Insulation resistance	1,000 MΩ (at 500 VDC)
Dielectric Strength	
Coil to contact	4,000 VAC for 1 minute
Across open contacts	2,500 VAC for 1 minute
Maximum Switching Current	120 Amps
Maximum Switching Power	27,700 VA
Insulation Resistance	1000 M Ohms
UL 508 A	
lth	160 Amps
Maximum horse power at 240 VAC single phase	15 Horse Power
IEC-60947	
AC1 Load	150 Amps
AC3 Load 200-240 Volts	30 KW / 105 Amps
Mechanical	
Connection Terminal	Mechanical Lugs
Operation Temperature (°C)	-40°C to +85°C
Enclosure Type	NEMA 01, 03R, 04
Control Input	120 VAC, 24 VAC or Dry Contacts
Warranty	5 Year Warranty on Magnetic Latching Relays



Easy to use 3 button programming module with LCD display



Includes Dual CT's for precision load shedding control

## Latching Relay Panels for Kohler®, Generac® and Cummins® Load Shedding Controllers



LS101X4LX

### Features

- Directly connects to any Kohler®, Generac® or Cummins® load shedding module - even the new Generac® low voltage board - to control circuits from 20 to 100 Amps each
- Utilizes Magnetic Latching Relays, eliminating the normal humming, chattering and heat associated with contactors
- Available in NEMA 01, NEMA 3R and Stainless Steel
- Available in 1, 2 and 4 relay configurations
- Compact Flush Mount version fits inside of studs and optional flush mount cover extends 3/4" past edge of can on all 4 sides for finished walls
- 5 year warranty on Magnetic Latching Relays

### Specifications

Electrical	
Rated Load at 277 Volts	120 Amps
Maximum Continuous Operating AC Voltage	480 Volts
Insulation resistance	1,000 MΩ (at 500 VDC)
Dielectric Strength	
Coil to contact	4,000 VAC for 1 minute
Across open contacts	2,500 VAC for 1 minute
Maximum Switching Current	120 Amps
Maximum Switching Power	27,700 VA
Insulation Resistance	1000 M Ohms
UL 508 A	
Ith	160 Amps
Maximum horse power at 240 VAC single phase	15 Horse Power
IEC-60947	
AC1 Load	150 Amps
AC3 Load 200-240 Volts	30 KW / 105 Amps
Mechanical	
Connection Terminal	Mechanical Lugs
Operation Temperature (°C)	-40°C to +85°C
Enclosure Type	NEMA 01, 03R, 04
Control Input	120 VAC, 24 VAC or Dry Contacts
Warranty	5 Year Warranty on Magnetic Latching Relays



## LSC Series

### Stand Alone Programmable Load Management Controllers

#### LSC Series 4, 8 & 12 Load Management Controllers



**LSC-04**  
4 Load Controller  
Single Phase



**LSC-08**  
8 Load Controller  
Single or Three Phase



**LSC-12**  
12 Load Controller  
Single or Three Phase

### Features

- Robust programming features allow for customization to meet almost any application
- Uses CT's to read the generator's actual current and accurately manage loads to prevent overloading (CT's sold separately)
- Field programmable with front panel controls, no laptop or programming tool required
- Works with any size of generator or transfer switch. Available in single and three phase models
- Available in 4, 8, and 12 load configurations. Each load can be independently controlled or locked out
- Small DIN Rail mount footprint allows for installation in most transfer switches
- Easy to use, entire program can be set up in 5 minutes or less

### Specifications

Input Voltage	120 VAC with 24 VDC power supply
Number of control relays	LSC-04=4, LSC-08=8, LSC-08+04X=12
Display	4 line, 16 character LCD
Program interface	8 programming keys
Memory Type	Retentive flash memory
Analog Inputs	10-bit, 0-10 VDC
Terminal Wire Size	26-16 gauge wire
Control Relay	SPST 8 Amp resistive load
Operation Temperature (°C)	-40 to +85
Module Mounting	Din-rail
Agency Approvals	cUL, CE, UL

## GLD-24 Low Voltage Wireless Generator Load Drop

Dual Form “C” N/O -N/C Dry Contacts



GLD-24

### Features

- Wireless Technology drops load when generator power is detected
- No control wires needed from the transfer switch
- Can be installed anywhere in the electrical system.
- 2- form “C” N/O and N/C control dry contacts
- Mounting flanges for surface mount installation
- Quick connect GLD-24 terminal blocks

### Overview

The GLD-24 provides a wireless solution to control loads with a Dual Form “C” Dry Contact allowing control of both Normally Open and Normally Closed devices. The contacts are rated for up to 5 amps and 250 volts AC to control a broad range of applications. The GLD-24 is powered by 24 volts AC that can be derived from anywhere within the electrical systems. A connection or control wire back to the generator or transfer switch is not required.

### How it Works

When a power outage occurs, and power is restored, the GLD-24 will energize the relays and begin to analyze the AC power from the input. When utility power is detected the GLD-24 will de-energize the relay after 2-5 minutes and enter into a sleep mode until the next outage occurs. When generator voltage is detected the relay will remain energized and the GLD-24 will continue to monitor the AC line waveform. When utility power returns the load will be restored after 2-5 minutes and the GLD-24 will enter sleep mode until a power outage occurs.

## GLD-50 Generator Load Drop

50 Amp N/C Relay



GLD-50

### Features

- Wireless Control drops load when generator is detected
- Drops 2-pole loads up to 50 amps
- NEMA 1 indoor enclosure
- Mounting flanges for surface mount installation
- Box lugs for easy installation
- No set up or adjustments required

### Overview

The GLD-50 provides a wireless solution to automatically disconnect double pole loads up to 50 amps when generator power is detected anywhere in the electrical system. A connection back to the generator or transfer switch is not required. When a power outage occurs and power is restored, the GLD-50 will disconnect the applied load and begin to analyze the AC waveform.

When utility voltage is detected the GLD-50 will restore the load and go into a sleep mode until the next outage occurs. When generator voltage is detected the load will remain disconnected and the GLD-50 will continue to monitor the AC line waveform. When utility returns the load will be restored after 2-5 minutes and the GLD-50 will enter sleep mode until a power outage occurs.

## Specialty Products

### KTSE-1/ KTSE-3: Kohler® RXT Transfer Switch Expander

#### KTSE-1 120/240VAC Single-Phase

##### RXT Expander Features

- Daisy Chain RXT transfer switches
- Eliminates need for RDT switch as slave switch
- Simple four wire hook-up. No cutting or splicing required
- Transfer switch control board plug, connects directly into the RXT Expander
- Packaged complete with all necessary components for a successful installation
- LED Indicator confirms utility or transfer mode
- Maintenance free, requires no batteries or adjustments
- RXT control board can be removed from slave transfer switches
- Small footprint that easily installs in transfer switch enclosure where control board was located
- One unit required for each slave switch being installed
- Custom-made 3-phase units available



#### KTSE-3 120/208VAC (100-200 amp Three-Phase RXT models only)

##### RXT Expander Features

- Daisy Chain RXT transfer switches
- Allows use of cost-effective RXT switches for three-phase application
- Transfer switch control board plug, connects directly into the RXT Expander
- Packaged complete with all necessary components for a successful installation
- LED Indicator confirms utility or transfer mode
- Maintenance free, requires no batteries or adjustments
- RXT control board can be removed from slave transfer switches
- Small footprint that easily installs in transfer switch enclosure where control board was located
- One unit required for each slave switch being installed



## Transfer Switch Converters



KTWS-1

### Features

- Works with Kohler® RXT® transfer switches
- Converts from R-bus connections to 2-wire start
- Connects to any 2-wire start generator
- Built-in weekly exercise timer option
- Utility loss timer selectable 5 sec. or 30 sec.
- Generator cool-down selectable 10 sec., 300 sec., or 600 sec.
- Utility return transfer timer selectable between 30 sec., 120 sec., or 600 sec.
- LED Indicator confirms utility or transfer mode
- Connects to factory P-13 connector for easy installation
- 2 Year Warranty



KGC-1

### Features

- Works with Generac® and Briggs & Stratton® transfer switches
- Connects to any 2-wire start generator
- Built-in weekly exercise timer option
- Utility loss timer selectable 5 sec. or 30 sec.
- Generator cool-down selectable 10 sec., 300 sec., or 600 sec.
- Utility return transfer timer selectable between 30 sec., 120 sec., or 600 sec.
- LED Indicator confirms utility or transfer mode
- 2 Year Warranty

### Overview

The KTWS-1 converts a Kohler RXT into a 2-Wire Start Transfer Switch.

The interface provides the necessary voltage sensing, timing functions and switching circuits required for automatic operation. This allows a 2-Wire Start Generator to be installed without having to change the transfer switch or wiring between the transfer switch and generator.

### How it Works

When utility power fail, the KTWS-1 will pause for 5 seconds to ensure an actual power outage has occurred. The KTWS-1 will then initiate a 2-wire generator start signal, starting up the generator. After a 15 second warm-up period the KTWS-1 will confirm the generator voltage is within acceptable levels and will then output the generator transfer signal.

When utility power is restored and remains stable for more than 2 minutes the controller will automatically transfer the load back to utility and signal the generator to turn off after cool down period.

### Overview

The KGC-1 converts a 240 volt sensing transfer switch to a 2 wire start transfer switch.

The interface provides the necessary voltage sensing, timing functions and switching circuits required for automatic operation. This allows a 2 wire start generator to be installed without having to change the transfer switch or wiring between the transfer switch and generator.

### How it works

When utility power fails, the KGC-1 will pause for 5 seconds to ensure an actual power outage has occurred. The KGC-1 will then initiate a 2 wire generator start signal, starting up the generator. After a 15 second warm up period the KGC-1 will confirm generator voltage is within acceptable levels and will then output the generator transfer signal.


When utility power is restored and remains stable for more than 2 minutes the controller will automatically transfer the load back to utility and signals the generator to turn off after cool down.

*PSP Products Inc. has served the industrial, commercial, utility and residential markets for over twenty five years by providing superior products and services. From our humble beginnings in the office products industry, we have evolved into a forward-thinking company offering innovative products to meet the demand of an ever changing-market.*

*We strongly believe that our customer is our most valuable asset. Unlike many of our larger competitors, we believe in working for our customers and conforming to meet their needs, not ours. We stand ready to assist in any way possible, supporting our customers through challenges and unique/urgent requirements they may encounter.*

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