

6 Introduction Guide

**General Description**

- Guide to Power Protection
- How various power protection devices work
- How to use power protection devices

6600 Series



**General Description**

- Sub-miniature bimetal thermostat
- 8-PIN DIP package configuration
- Snap-acting trip mechanism increases operational life
- Single pole, single throw, automatic reset

**Max. Poles**

- SPST

**Current and Voltage Rating**

- 0.50 to 16.0 amps at 240 VAC, 50/60 Hz
- 0.50 to 16 amps at 50 VDC
- 0.50 to 12 amps at 24 VDC (VDE)

**Interrupting Capacity**

- 1000 amps

**Approvals\***

- UL recognized
- CSA certified
- VDE approved

6700 Series



**General Description**

- Sub-miniature bimetal thermostat
- TO-220 package configuration
- Snap-acting trip mechanism increases operational life
- Single pole, single throw, automatic reset
- VDE approved "P" version is available

**Max. Poles**

- SPST

**Max. Poles**

- 2

**Current and Voltage Rating**

- 2.5 to 20.0 amps at 240 VAC, 50/60 Hz
- 2.5 to 20 amps at 50 VDC

**Interrupting Capacity**

- 1000 amps

**Approvals\***

- UL recognized
- CSA certified
- TUV approved
- CE compliant

IAR/IUR/IER/CUR/CER



**General Description**

- 1U (1RU) hydraulic magnetic circuit breaker
- Low-profile design
- Auxiliary switch options available for alarm signaling

**Max. Poles**

- 2

**Current and Voltage Rating**

- 2 to 50 amps at 80 VDC and 250 VAC
- 2 to 30 amps, 120/240VAC (2 poles)

**Interrupting Capacity**

- 5000 amps, 65VDC
- 5000 amps, 80VDC
- 2000 amps, 250VAC
- 5000 amps, 120/240VAC (2poles)
- 5000 amps, 80VDC (2 poles)

**Approvals\***

- C-UL recognized
- UL1077 recognized
- UL489A listed
- TUV approved

T/R/PP/PR/CP/CPR/CR (SNAPAK®)



**General Description**

- Compact magnetic-hydraulic circuit protector
- Snap-acting trip mechanism increases operational life
- Aesthetically pleasing for front panel mounting
- Toggle, rocker, push-pull and push-to-reset actuation options

**Max. Poles**

- 2

**Current and Voltage Rating**

- 0.10 to 7.5 amps at 50 VDC and 250 VAC
- 0.10 to 30 amps at 32 VDC
- 0.10 to 30 amps at 120 VAC
- 0.10 to 25 amps at 120/240 VAC (two poles)
- 0.10 to 20 amps at 250 VAC (50/60 Hz, at 500AIC)
- 0.10 to 20 amps at 65 VDC [two poles, at 500AIC]

**Interrupting Capacity**

- 1000 amps

**Approvals\***

- UL recognized
- CSA certified
- TUV approved
- CE compliant
- CCC approved

AP/UP, AP-MIL



**General Description**

- QPL to MIL-PRF-39019
- Sealed magnetic-hydraulic circuit protection
- Can withstand 100G shock repeatedly
- Tolerates 10G vibration from 10 to 2000 Hz under full load
- Ideal for use in Class 1, Div. 2 Groups A, B, C and D hazardous locations

**Max. Poles**

- 3

**Current and Voltage Rating**

- AP ratings
- 0.05 to 20 amps at 50 VDC and 240 VAC
- UP ratings (single pole only)
- 0.05 to 20 amps at 50 VDC
- 0.05 to 15 amps at 120 VAC
- 0.05 to 7.5 amps at 240 VAC

**Interrupting Capacity**

- AP ratings
- 500 amps, 50 VDC, 120 VAC
- 300 amps, 240 VAC
- UP ratings
- 1000 amps, 50VDC, 240 VAC

**Approvals\***

- MIL-PRF-M39019
- UL recognized (UP type only)
- FM approved (UP type only)

IPA/CPA



**General Description**

- Compact magnetic-hydraulic circuit protection
- Quick-connect, screw, PC board mount terminals
- Auxiliary switch options
- Multi-pole options with multi or single handle

**Max. Poles**

- 3

**Current and Voltage Rating**

- 0.05 to 30 amps at 65 VDC
- 0.05 to 20 amps at 80 VDC (300 AIC)
- 0.05 to 25 amps at 250 VAC, 50/60 Hz
- 25.1 to 30 amps at 240 VAC, 50/60 Hz
- 0.10 to 15 amps at 250 VAC, 400 Hz
- 0.05 to 25 amps at 65 VDC (TUV)
- 0.05 to 25 amps at 250 VAC, 50/60 Hz (TUV)
- 0.05 to 15 amps at 250 VAC, 400 Hz (TUV)

**Interrupting Capacity**

- 1000 amps

**Approvals\***

- UL 489A listed (CPA)
- UL recognized
- CUR recognized
- TUV certified
- CE compliant
- CCC approved (pending)

IAG/IUG/IEG/CEG/LEG



**General Description**

- IEG versions meet IEC spacing requirements for installation in equipment that must comply with IEC 601 and 950, and VDE 0730, 0804, and 0805
- Multi-pole options with multi or single handle
- Auxiliary switch options
- Mid-trip handle option
- Snap-in mounting option
- Dual frequency delay options

**Max. Poles**

- 6

**Current and Voltage Rating**

- 0.05 to 50 amps at 80 VDC
- 0.05 to 50 amps at 240 VAC
- 0.05 to 30 amps at 277 VAC, 50/60 Hz
- 0.05 to 30 amps at 250 VAC, 400 Hz
- 0.05 to 30 amps at 125 VAC, 50/60 Hz
- 1 to 30 amps at 120/240 VAC, 50/60 Hz

**Interrupting Capacity**

- 5000 amps, 240 VAC, 50/60 Hz
- 1500 amps, 250 VAC, 400 Hz
- 7500 amps, 80 VDC (IEG)
- 5000 amps, 80 VDC (CEG)
- 2000 amps, 250 VAC, 50/60 Hz (VDE)
- 4000 amps, 80 VDC (VDE)
- 5000 amps, 125 VAC, 50/60 Hz (LEG)
- 5000 amps, 120/240 VAC, 50/60 Hz (LEG)

**Approvals\***

- UL 489 listed (LEG)
- UL 489A listed (CEG)
- UL recognized
- CSA certified
- VDE approved (IEG, CEG, LEG)
- CE compliant
- CCC approved
- UL 1500 certified
- QPL to MIL-PRF-55629

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**IAL/IUL/IEL**



**General Description**

- IEL versions meet IEC spacing requirements for installation in equipment that must comply with IEC 601 and 950 and VDE 0730, 0804 and 0805
- Multi-pole options with multi or single handle
- Auxiliary switch options
- Snap-in mounting option
- Mid-trip handle option
- Various actuator options
- Dual frequency delay options

**Max. Poles**

- 6

**Current and Voltage Rating**

- 0.05 to 100 amps at 65 VDC
- 0.05 to 70 amps at 80 VDC
- 0.05 to 50 amps at 250VDC
- 0.05 to 50 amps at 300VDC
- 0.05 to 70 amps at 240 VAC, 50/60 Hz
- 0.05 to 50 amps at 277 VAC, 50/60 Hz
- 0.05 to 50 amps at 277/480 VAC, 50/60 Hz
- 0.05 to 50 amps at 250 VAC, 400 Hz

**Interrupting Capacity**

- 5000 amps, 240 VAC, 50/60 Hz
- 1500 amps, 250 VAC, 400 Hz
- 7500 amps, 80 VDC
- 2000 amps, 240 VAC, 50/60 Hz (VDE)
- 2000 amps, 415 VAC, 50/60 Hz (VDE)
- 4000 amps, 80 VDC (VDE)
- 1200 amps, 277/480 VAC, 50/60 Hz
- 5000 amps, 250VDC
- 1000 amps, 300VDC

**Approvals\***

- UL recognized
- CSA certified
- VDE approved (IEL)
- CE compliant (IEL)
- CCC approved
- UL 1500 certified
- QPL to MIL-PRF- 55629

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**IALR/IULR/IELR**



**General Description**

- Meets IEC spacing requirements for installation in equipment that must comply with IEC 601 and 950, and VDE 0730, 0804 and 0805
- Designed to mount on standard 35mm DIN rails

**Max. Poles**

- 4

**Current and Voltage Rating**

- .050 to 70 amps at 80 VDC
- .050 to 70 amps at 250 VAC, 50/60 Hz
- .100 to 50 amps at 80 VDC (VDE)
- .100 to 50 amps at 250 VAC, 50/60 Hz (VDE)
- .100 to 30 amps at 415 VAC, 50/60 Hz (VDE)

**Interrupting Capacity**

- 7500 amps, 80 VDC
- 5000 amps, 250 VAC, 50/60 Hz
- 2000 amps, 277 VAC, 50/60 Hz
- 2000 amps at 250 VAC, 50/60 Hz (VDE)
- 2000 amps at 415 VAC, 50/60 Hz (VDE)
- 4000 amps at 80 VDC (VDE)

**Approvals\***

- UL recognized
- CSA certified
- VDE approved (IELR)
- CE compliant

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**209/219/229/279**



**General Description**

- Front or back connected terminal styles
- E-frame style model complies with UL 489
- 249 Power Selector Breaker system is listed as a branch circuit breaker per UL 489
- Complies with international requirements
- 279 complies with UL 489A

**Max. Poles**

- 6

**Current and Voltage Rating**

- .100 to 100 amps at 160 VDC
- .100 to 125 amps at 125 VDC
- .100 to 77 amps at 600 VAC
- .100 to 100 amps at 347/600 VAC
- .100 to 100 amps at 120, 240, 277, 480 VAC
- .100 to 100 amps, 125 VDC, 240/415 VAC (VDE)

**Interrupting Capacity**

- 5000 amps
- 10000 amps
- 4000 amps (VDE)

**Approvals\***

- UL 489 listed
- UL 489A listed (279)
- UL recognized
- CSA certified
- VDE approved
- UL1500 certified
- CCC approved
- CE compliant

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**JAE/JRE/JTE/JLE**



**General Description**

- F-frame style complies with UL 489
- Various terminal options for design flexibility
- Reduced voltage drop through the circuit breaker compared to other protective devices
- Auxiliary switch options
- Mid-trip handle options

**Max. Poles**

- 6

**Current and Voltage Rating**

- UL489
  - 100 to 250 amps at 160 VDC
  - 100 to 250 amps at 65 VDC
  - 100 to 250 amps at 125/250 VDC
  - 100 to 250 amps at 240 VAC
- UL489A
  - 275 to 800 amps at 160 VDC
  - 275 to 1200 amps at 65 VDC

**Interrupting Capacity**

- 10000 amps, 160 VDC
- 10000 amps, 125/250 VDC
- 65000 amps, 65 VDC
- 10000 amps, 240 VAC
- 18000 amps, 240 VAC
- 100000 amps, 65VDC (UL489A up to 800 amps)

**Approvals\***

- UL 489 listed
- UL 489A listed
- UL recognized
- CSA certified
- VDE approved
- CCC approved
- CE compliant

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**MDS & MDS2**



**General Description**

- Modular Distribution System provides unprecedented flexibility
- "Hot Plug" modules allow for equipment expansion without power shutdown
- Unique alarm conductors simplify signal wiring
- Modular load terminals available with front or rear access

**Max. Poles**

- 24

**Current and Voltage Rating**

- Maximum load bus rating per position is 100 amps, 125VDC

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**PGFM**



**General Description**

- GFCI sensing module designed to operate in tandem with the LEL series circuit breaker with a shunt voltage trip and auxiliary switch
- Manufactured by North Shore Safety, Ltd., a leader in innovative safety products
- Automatic and manual reset configurations
- Power and fault status indicators
- Double insulated user interface

**Max. Poles<sup>†</sup>**

- 3

<sup>†</sup> Number of circuit breaker poles

**Ground Trip Current**

- 4 to 6 mA

**Trip Time, Combined Assembly**

- ≤ 25 mS

**Rated Voltage**

- 120 VAC or 240 VAC, 50/60 Hz

**Let-Go Voltage**

- 60% of supply voltage

**Interrupting Capacity**

- As per rating of Airpax™ LEL series

**Approvals\***

- UL 943, Class A or
- UL 1053 Compliant

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**15 Amp PGFP Plug Series**



**General Description**

- 15 amp plug cordset GFCI series
- Manufactured by North Shore Safety, Ltd., a leader in innovative safety products
- Automatic and manual reset configurations
- Available as a field wireable plug or with attached cords and outlets
- Plug assembly with power single or tri-tap outlet
- Electro-magnetically latched contacts

**Rated Current**

- Up to 15 amps at 120 VAC, 50/60 Hz

**Ground Trip Current**

- 4 to 6 mA

**Insulation Voltage**

- 1500 VRMS - 1 minute

**Endurance Operations**

- 3000 operations

**Construction**

- NEMA 3R rated

**Approvals\***

- cULus 943, Class A or
- UL recognized

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**15 Amp PGFI In-line Series**



**General Description**

- 15 amp in-line cordset GFCI series
- Manufactured by North Shore Safety, Ltd., a leader in innovative safety products
- Automatic and manual reset configurations
- Available as a field wireable plug or with attached cords and outlets
- Plug assembly with power single or tri-tap outlet
- Electro-magnetically latched contacts

**Rated Current**

- Up to 15 amps at 120 VAC, 50/60 Hz

**Ground Trip Current**

- 4 to 6 mA

**Insulation Voltage**

- 1500 VRMS - 1 minute

**Endurance Operations**

- 3000 operations

**Construction**

- NEMA 3R rated

**Approvals\***

- cULus 943, Class A
- cCSAus certified to CSA-C22.2 No. 144 or
- UL recognized

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**20 Amp PGFI Portable Series**



**General Description**

- 20 amp in-line cordset GFCI series
- Manufactured by North Shore Safety, Ltd., a leader in innovative safety products
- Automatic and manual reset configurations
- Available with locking connectors / plugs or flying leads
- Electro-magnetically latched contacts

**Rated Current**

- Up to 20 amps

**Rated Voltage**

- 120 VAC, 208 VAC, 240 VAC, 277 VAC

**Operating Voltage Range**

- 85% to 110% of rating

**Ground Trip Current**

- 4 to 6 mA

**Construction**

- NEMA 4X wet location rated

**Approvals\***

- cULus 943, Class A
- cCSAus certified to CSA-C22.2 No. 144

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**30 Amp PGFI Portable Series**



**General Description**

- 30 amp in-line cordset GFCI series
- Manufactured by North Shore Safety, Ltd., a leader in innovative safety products
- Automatic and manual reset configurations
- Available with locking connectors / plugs or flying leads
- Electro-magnetically latched contacts

**Rated Current**

- Up to 30 amps

**Rated Voltage**

- 120 VAC, 208 VAC, 240 VAC, 277 VAC

**Operating Voltage Range**

- 85% to 110% of rating

**Ground Trip Current**

- 4 to 6 mA

**Construction**

- NEMA 4X and 6P wet location rated

**Approvals\***

- cULus 943, Class A
- cCSAus certified to CSA-C22.2 No. 144

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**30 Amp PGFI Portable Series, Multi-Phase**



**General Description**

- 30 amp multi-phase cordset GFCI series
- Manufactured by North Shore Safety, Ltd., a leader in innovative safety products
- Automatic and manual reset configurations
- Dual indication lights displaying power and fault status
- Grounded and open neutral protected
- Electro-magnetically latched contacts

**Rated Current**

- Up to 30 amps

**Rated Voltage**

- 120/240 VAC dual voltage, 120/208 VAC 3Ø, 240 VAC 3Ø, 208 VAC 3Ø, 277 VAC 3Ø (non-UL or CSA)

**Operating Voltage Range**

- 85% to 110% of rating

**Ground Trip Current**

- 4 to 6 mA

**Construction**

- NEMA 4X and 6P wet location rated

**Approvals\***

- cULus 943, Class A
- cCSAus certified to CSA-C22.2 No. 144

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**40, 50 & 60 Amp PGFI Portable Series**



**General Description**

- 40, 50 & 60 amp in-line ELCI series
- Manufactured by North Shore Safety, Ltd., a leader in innovative safety products
- Automatic and manual reset key switch selector
- Fault threshold key switch selector
- Available with locking connectors/ plugs or flying leads
- Electro-magnetically latched contacts

**Rated Current**

- 40, 50 or 60 amps

**Rated Voltage**

- 120 VAC, 240 VAC, 208 VAC, 277 VAC, 120/240 VAC, 3Ø 240 VAC, 3Ø 208 VAC, 3Ø 277 VAC, 3Ø 480 VAC, 3Ø 600 VAC

**Operating Voltage Range**

- 85% to 110% of rating

**Ground Trip Current Threshold**

- Key switch selectable: 6, 10 and 30mA

**Construction**

- NEMA 4X wet location rated

**Approvals\***

- UL 1053 compliant

229

**30 Amp PGFS Permanent Series**



**General Description**

- 30 amp splice-in GFCI series
- Manufactured by North Shore Safety, Ltd., a leader in innovative safety products
- Automatic and manual reset configurations
- Fault output options available
- Grounded and open neutral protected
- Electro-magnetically latched contacts

**Rated Current**

- Up to 30 amps

**Rated Voltage**

- 120 VAC, 208 VAC, 240 VAC, 120/240 VAC 277 VAC (non-UL)

**Operating Voltage Range**

- 85% to 110% of rating

**Ground Trip Current**

- 4 to 6 mA

**Construction**

- NEMA 4X and 6P wet location rated

**Approvals\***

- cULus 943, Class A
- cCSAus certified to CSA-C22.2 No. 144

231

**30 Amp PGFS Permanent Series, Multi-Phase**



**General Description**

- 30 amp multi-phase splice-in GFCI series
- Manufactured by North Shore Safety, Ltd., a leader in innovative safety products
- Automatic and manual reset configurations
- Dual indication lights displaying power and fault status
- Grounded and open neutral protected
- Electro-magnetically latched contacts

**Rated Current**

- Up to 30 amps

**Rated Voltage**

- 120/240 VAC dual voltage, 120/208 VAC 3Ø, 240 VAC 3Ø, 208 VAC 3Ø, 277 VAC 3Ø (non-UL or CSA)

**Operating Voltage Range**

- 85% to 110% of rating

**Ground Trip Current**

- 4 to 6 mA

**Construction**

- NEMA 4X and 6P wet location rated

**Approvals\***

- cULus 943, Class A
- cCSAus certified to CSA-C22.2 No. 144

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**40, 50 & 60 Amp PGFS Permanent Series**



**General Description**

- 40, 50 & 60 amp splice-in ELCI series
- Manufactured by North Shore Safety, Ltd., a leader in innovative safety products
- Automatic / manual reset key switch
- Fault trip level key switch
- Keyed power switch
- Dual indication lights displaying power and fault status
- Grounded and open neutral protected
- Electro-magnetically latched contacts

**Rated Current**

- 40, 50 or 60 amps

**Rated Voltage**

- 120 VAC, 240 VAC, 208 VAC, 277 VAC, 120/240 VAC, 3Ø 240 VAC, 3Ø 208 VAC, 3Ø 277 VAC, 3Ø 480 VAC, 3Ø 600 VAC

**Operating Voltage Range**

- 85% to 110% of rating

**Ground Trip Current**

- 6 mA, 10 mA and 30mA

**Construction**

- NEMA 4X wet location rated

**Approvals\***

- UL 1053 compliant

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**PGFR Duplex Receptacle Series**



**General Description**

- 15 / 20 amp duplex receptacle GFCI series
- PGFR model - standard wall receptacle
- Model has:
  - Standard power indicator light
  - Manual reset configuration
  - TEST and RESET buttons

**Rated Current**

- 15 / 20 amps

**Rated Voltage**

- 120 VAC

**Operating Voltage Range**

- 85% to 110% of rating

**Ground Trip Current**

- 4 to 6 mA

**Approvals\***

- UL recognized for use under cULus 943, Class A
- cCSAus certified to CSA-C22.2 No. 144

## SAS/SUS/SES



### General Description

- Ultra-compact and ultra-light hydraulic-magnetic circuit protector
- Trip-free function
- Wiping-action, self-cleaning contacts
- Slide actuator
- PCB terminals

### Max. Poles

- 1

### Current and Voltage Rating

- 0.100 to 15.0 amps at 125 VAC, 50/60 Hz
- 0.100 to 15 amps at 250 VAC, 50/60 Hz
- 0.100 to 15 amps at 32 VDC
- 0.100 to 15 amps at 50 VDC

### Interrupting Capacity

- 500 amps

### Approvals\*

- UL recognized
- CSA certified
- VDE approved

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## SAR/SUR/SER



### General Description

- Ultra-compact and ultra-light hydraulic-magnetic circuit protector
- Trip-free function
- Wiping-action, self-cleaning contacts
- Rocker actuator
- .250" quick-connect or PCB terminals

### Max. Poles

- 2

### Current and Voltage Rating

- 0.100 to 20.0 amps at 125 VAC, 50/60 Hz
- 0.100 to 15 amps at 250 VAC, 50/60 Hz
- 0.100 to 15 amps at 32 VDC
- 0.100 to 30 amps at 50 VDC\*\*

\*\* Agency Approvals Pending

### Interrupting Capacity

- 500 amps

### Approvals\*

- UL recognized
- CSA certified
- VDE approved

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## QAS/QAL/QFS/QFL



### General Description

- Silver-link quick-action fuses
- L-type terminals construction for easy installation
- Resistive to repetitive currents
- Low power loss
- Excellent current-limiting characteristics
- Available options include fuse holder indicator fuse, microswitch

### Current and Voltage Rating

- QAS25
- 20 to 100 amps at 250VAC, 300VDC
- QAL25
- 75 to 300 amps at 250VAC, 300VDC
- QAS60
- 20 to 75 amps at 600VAC, 500VDC
- QAL60
- 100 to 300 amps at 600VAC, 500VDC
- QFS25
- 10 to 100 amps at 250VAC, 400VDC
- QFL25
- 75 to 300 amps at 250VAC, 400VDC

### Interrupting Capacity

- QAS25
- 10KA at 250VAC, 300VDC
- QAL25
- 10KA at 250VAC, 300VDC
- QAS60
- 100KA at 600VAC, 10KA at 500VDC
- QAL60
- 100KA at 600VAC, 10KA at 500VDC
- QFS25
- 10KA at 250VAC, 400VDC
- QFL25
- 10KA at 250VAC, 400VDC

### Approvals\*

- QFS25: CSA certified
- UL recognized, TUV

## HVS



### General Description

- High voltage DC switch
- Compact design
- Available options include remote signal disconnect and auxiliary switch

### Max. Poles

- 3

### Current and Voltage Rating

- Up to 30 amps at 300VDC, open voltage 450VDC
- > 5000cycles at 2x per minute, at nominal current

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## SARPV



### General Description

- High voltage DC power switch
- Compact design
- Available options include remote signal disconnect and auxiliary switch

### Max. Poles

- 2

### Current and Voltage Rating

- Up to 10 amps at 300VDC, open voltage 450VDC
- > 5000cycles at 2x per minute, at nominal current

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## ADDITIONAL PRODUCTS

### General Description

- AIRPAX™ & KLIXON™ Bimetal Thermostats
- KLIXON™ Air Flow Sensors
- AIRPAX™ Temperature Sensors
- KLIXON™ Aircraft Circuit Breakers
- KLIXON™ Thermal Circuit Breakers

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## DIMENSIONS™ DC TO AC INVERTERS

### General Description

- AIRPAX™ APG/UPG Series
- AIRPAX™ APL/UPL/205 Series
- AIRPAX™ 203 Series

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## EXISTING-DESIGN PRODUCTS

### General Description

- Mobile AC Power
- International Standby Power
- Traffic Signal Backup
- Industrial (High Voltage)
- Military

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