set of latching relays.

sets of form “C” contacts (DPDT) are available for use with alarm circuits when alarm load exceeds the 28Vdc, 1A @ 52Vdc, 0.1A @ 130Vdc. Auxiliary relays are relay contacts are rated for resistive loads of: 1A @ 120Vac, 2A @ .

circuits with two (2) sets of dry form “C” contacts (DPDT) are (SPDT) wired to a terminal strip for customer termination. Alarm

• •

Available with or without front panel

Remote Indication*

High-Low AC Voltage Provides a single alarm state when any one setting

Provides alarm state when battery has

fails or AC breaker is open.

Provides alarm state when charger

(No DC Current)

Provides high alarm state when battery is

fault has occurred at either the + or –

ground fault with switch in “ground test”

Ground Detection Indicating Lights

Front Panel DC Voltmeter Indication

Summary alarm relay for any one or all

delay on alarm, auto reset

With indicating light, 30-second time delay on alarm, auto reset

Charger Failure Alarm Relay

Ground Detection Alarm Relay

High DC Voltage Alarm Relay

Output ripple voltage is 30mVrms or

DC voltage alarm activates the shutdown

with (+) ground detection indicating

14000 AIC, UL Listed 600 & 800A-Frame

10000 AIC, UL Listed 250 & 400A-Frame

• A contact closure from a high

importance

• Export packing

• Cabinet heater strips

• Alarm buzzer

• (AIC) circuit breakers

• Special high-interrupting capacity

• Additional surge protection to meet

ANSI 37.90A

• Provides additional input protection

• Three-phase power input

TYPICAL SCR/SCRF BATTERY CHARGER

IMPORTANT SPECIFICATIONS

Three-Phase Input

Table 1

<table>
<thead>
<tr>
<th>Ampere Rating</th>
<th>Three-Phase</th>
<th>Single-Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>120Vdc</td>
<td>240Vdc</td>
<td>48Vdc</td>
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<tr>
<td>1.0 A</td>
<td>2.0 A</td>
<td>4.0 A</td>
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<tr>
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3.125 Saint John Street • Easton, PA 18042-6661 • phone 610-330-9000 • fax 610-330-8510 • www.HindlePower.com

For more information, call: 610-330-9000 • fax: 610-330-8510 • www.HindlePower.com

JF5010
HindlePower SCR/SCRF
Series of industrial float chargers is designed to automatically control charging rates for a wide variety of battery types and to simultaneously provide full-rated output for both continuous and intermittent loads.

The chargers are constant voltage devices with automatic current limiting. Voltage regulation and current limiting are controlled by solid-state integrated circuitry to assure maximum performance in minimum space.

The SCR/SCRF Series is ideally suited to utilities, communications and other standby power applications.

**DESIGN FEATURES**

- **Compact Design**: Components are mounted in welded-steel enclosures, ensuring durability and space efficiency.
- **High Reliability**: Designed for 100,000 hours life or 10 years service life, whichever occurs first.
- **Durable Construction**: Front panels are recessed to prevent damage and are phosphatized steel with an attractive, long-lasting acrylic enamel finish.
- **Easy Troubleshooting**: Color-coded internal wiring and voltage, current and frequency to be maintained with load variations.
- **Environmentally Friendly**: Front panel toggle switch pre-wiring connections and adjustable load taps are available.

**ENVIRONMENTAL SPECIFICATIONS**

- **Operating Temperature**: -40°F to 185°F (-40°C to 85°C)
- **Storage Temperature**: 32°F to 122°F (0°C to 50°C)
- **Relative Humidity**: 5% to 95% (without condensation)
- **Altitude**: 3300 feet (1000 meters) above sea level
- **Audible Noise**: 55 to 60dBA at 100% load.

**ELECTRICAL SPECIFICATIONS**

- **Input**: 380 – 416V 47 – 63Hz
- **Output**: 480V 57 – 63Hz
- **Output Current Limit**: Specified at time of order.
- **Overload Protection**: Automatic charger shutdown due to overheat is optional.
- **Alarm Contacts**: (Automatic charger overheat audible alarm and remote-fan-assisted convection cooling with 55 to 60dBA at 100% load.

**SCR/SCRF BATTERY CHARGERS STANDARD ACCESSORIES**

- **UNPERFORMED**: Output float voltage, equalize voltage, float adjustment range, equalize adjustment range.
- **PERFORMED**: Current limit adjustment potentiometers, float and equalize adjustment potentiometers, label of internal components, color-coded wiring, test-point labeling of internal components.

**Typical SCR/SCRF Performance Curves**

**Scr/Scrf Battery Charger DC Output Table**

<table>
<thead>
<tr>
<th>DC Voltage Setting (Vdc/cell)</th>
<th>SCR/SCRF 600A</th>
<th>SCR/SCRF 1200A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.35 – 1.45 V/Cell</td>
<td>260 – 280 V</td>
<td>520 – 560 V</td>
</tr>
<tr>
<td>1.50 – 1.60 V/Cell</td>
<td>245 – 275 V</td>
<td>490 – 520 V</td>
</tr>
</tbody>
</table>

**Scr/Scrf One-Line Circuit Diagram**

- **DC Output Eliminator Operation**: On/Off Switch, to control DC output flow to battery eliminator, to the greater than specified time of order.
- **DC Output Fuses**: Three-pole, 25000 AIC, UL Listed 225A-Frame
- **DC Output Blocking Diode**: 400A and 600A-Frame

**Typical SCR/SCRF Series One Line Circuit Diagram**

- **Adjustable Float and Equalize**: Potentiometers
- **Current Limit Adjustment**: Potentiometers
- **Float and Equalize Adjustment**: Adjustable
- **Conversion Efficiency – Single-Phase Charger**: % Load

**HindlePower SCR/SCRF**

For more information, call 1-800-533-5982. Visit our website at [www.hindlepower.com](http://www.hindlepower.com)
The chargers are constant voltage devices with automatic current limiting. Voltage regulation and current limiting are controlled by solid state integrated circuitry to assure maximum performance in minimum space. The SCR/SCRF Series is ideally suited to communications, utilities, and other stationary charger applications.

**ELECTRICAL SPECIFICATIONS**

### SCR/SCRF Battery Charger DC Output Table

<table>
<thead>
<tr>
<th>ADC Size Cell</th>
<th>Available (1)Equalize Capability (2)</th>
<th>Lead-Acid Cell</th>
<th>Capability (3)</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

**SPECIFICATIONS**

- **Audible Noise**: Less than 65dBA at any point 5 feet from the charger.
- **Relative Humidity**: 32°F to 122°F (0°C to 50°C)
- **Storage Temperature**: 32°F to 122°F (0°C to 50°C)

**Environmental Specifications**

- **Temperature**: Operating Temperature: -4°F to 122°F (-20°C to 50°C)
- **Temperature**: Storage Temperature: -4°F to 158°F (-20°C to 70°C)
- **Humidity**: Operating Humidity: 10% to 90% non-condensing
- **Humidity**: Storage Humidity: 5% to 95% non-condensing

**Ease of Installation**

- Front panels are recessed to prevent direct exposure to the environment.
- Stationary chargers require the addition of battery eliminator operation when chargers are used without batteries. Addition of the DC bus circuit distinguishes the charger as a DC power supply.
- SCRF units. Electrical voice band alarms require an additional control module.

**Ease of Access**

- Control modules and many electrical components are easily accessible and/or removable through a hinged front door.
- Durable phosphatized steel with an attractive, NEMA-1 enclosures of heavy-gauge sub-assemblies are standardized for easy serviceability.

**Ease of Adjustment**

- Power regulation potentiometer adjustable.
- Current limit characteristics. Equal to 1% of DC voltage setting main and alarm levels are adjustable from 90% to 120% of circuitry is factory set at 110%

**Protection**

- Output regulation – Ni-Cd Batteries
- Equalize – Battery to 2.15 to 2.25V/Cell and equalize of 2.25 to 2.4V/Cell
- The electronic current limiting rated load.
- Overshoot of DC voltage setting is typically 500msec
- Recovery to steady state DC voltage setting typically 200msec

**ShUTDOWN (optional)**

- Ground detection
- Alarms (optional)

**Remote Alarm Signals**

- Remote alarm signals
- Remote alarm signals
- Remote alarm signals

**DC Output Monitoring**

- DC output monitoring
- Monitor on optional AC and DC surge suppressors
- MOV Type
- Two-pole, current-limiting rectifier type

**AC and DC Surge Suppressors**

- AC and DC surge suppressors
- Recognized 100A-Frame Listed
- 225A-Frame
- 400A and 600A-Frame
- Listed 225A-Frame
- Recognized 400A-Frame
- Listed 400A-Frame

**ALARM (optional)**

- Remote alarm signals
- Remote alarm signals
- Remote alarm signals

**Protection**

- Output Transient Response
- Unfiltered (SCR Series): Output ripple
- Filtered (SCRF Series): Output ripple

**COLOR-CODED INTERNAL WIRING**

- Color-coded internal wiring

**Typical SCR/SCRF Performance Curves**

- Typical SCR/SCRF Performance Curves

**HindlePower SCR/SCRF**

- Series of industrial float chargers is designed to automatically control charging rates for a wide variety of battery types and to simultaneously provide full-rated output for both continuous and intermittent loads.

- The chargers are constant voltage devices with automatic current limiting. Voltage regulation and current limiting are controlled by solid state integrated circuitry to assure maximum performance in minimum space. The SCR/SCRF Series is ideally suited to communications, utilities, and other stationary charger applications.

**DESIGN FEATURES**

- Components Selection
- Front modules are recessed to prevent direct exposure to the environment.
- Stationary chargers require the addition of battery eliminator operation when chargers are used without batteries. Addition of the DC bus circuit distinguishes the charger as a DC power supply.
- SCRF units. Electrical voice band alarms require an additional control module.

**ACCESSORIES**

- 2% accuracy, 3.5-inch case adjustment potentiometers
- 2% accuracy, 3.5-inch case adjustment potentiometers
- 2% accuracy, 3.5-inch case adjustment potentiometers

**Components are selected or manufactured under UL
duty cycle, with plug and socket connection for

**AC Input**

- 120/208 – 240V 47 – 63Hz (optional)
- 130 115 - 140 124 - 150 6 to 50 25 to 600 55 - 62 63 86 - 94 98
- 260 230 - 280 245 - 300 6 to 25 16 to 300 110 - 124 126 172 - 188 196
- 48 46 - 60 48 - 64 6 to 100 50 to 600 22 - 26 27 34 - 40 42

**Battery Eliminator Operation**

- Battery Eliminator Operation
- Battery Eliminator Operation
- Battery Eliminator Operation

**Conversion Efficiency – Single-Phase Charger**

- Conversion Efficiency – Single-Phase Charger
- Conversion Efficiency – Single-Phase Charger

**ELECTRICAL SPECIFICATIONS**

- SCR/SCRF Battery Charger Standard Accessories
- SCR/SCRF Battery Charger Standard Accessories
- SCR/SCRF Battery Charger Standard Accessories

**Typical SCR/SCRF Series One Line Circuit Diagram**

- SCR/SCRF Series One Line Circuit Diagram
- SCR/SCRF Series One Line Circuit Diagram
- SCR/SCRF Series One Line Circuit Diagram
HindlePower SCR/SCRF
Series of industrial float chargers is designed to automatically control charging rates for a wide variety of battery types and to simultaneously provide full-rated output for both continuous and intermittent loads.

The chargers are constant voltage devices with automatic current limiting. Voltage regulation and current limiting are controlled by solid-state integrated circuitry to assure maximum performance in minimum space.

The SCR/SCRF Series is ideally suited to telecommunications, utilities, and other stationary charger applications.

**DESIGN FEATURES**

- **Component Selection**: Transformer components are chosen to provide optimal performance, allowing SCR/SCRF chargers to provide maximum efficiency and reliability.
- **Durable Construction**: NEMA-1 enclosures of heavy-gauge phosphatized steel with an attractive, easy serviceability.
- **Modular Construction**: Durable, easy serviceability.
- **Easy Troubleshooting**: Easy troubleshooting and identification of internal components.

**ENVIRONMENTAL SPECIFICATIONS**

- **Operating Altitude**: -40°F to 185°F (-40°C to 85°C)
- **Relative Humidity**: 5% to 95% (without condensation)
- **Temperature**: 32°F to 122°F (0°C to 50°C)
- **Output Transient Response**: 10ms maximum for 300A output
- **Output Ripple and Noise**: 100mV peak-to-peak, NEMA-1 enclosure

**ELECTRICAL SPECIFICATIONS**

- **Single-Phase Voltages**:
  - 120V 57 – 63Hz
  - 120V 57 – 63Hz
- **Three-Phase Voltages**:
  - 480V 57 – 63Hz
  - 480V 57 – 63Hz

**Battery Eliminator Operation**

- **available ratings**
  - 24VDC
  - 24VDC

**SCR/SCRF BATTERY CHARGED STANDARD ACCESSORIES**

- **Battery Charge**: 0 to 100% C-rate
  - Over 240Vac:
    - 1500Vpk - 1.2x20 µsec pulse
  - 240Vac or less:
    - 1500Vpk - 1.2x20 µsec pulse
- **AC Withstand**: 1000Vrms (1 minute)
- **MOV Type**: 100A-Frame Listed 225A-Frame Recognized 100A-Frame
- **DC Output Blocking Diode**
- **DC Output Ammeter**: 1.5 Scale
- **Current Limit Adjustment**: Potentiometers
- **Float and Equalize Adjustment**: Potentiometers
- **Remote Alarm Signal**: Summary Alarm
- **Remote Alarm Signal**: Common or Internal Alarm Signal(s)
- **Protection**: Forced Load Sharing
- **Power Isolation**: 0 10% Efficiency
- **Summary Alarm**: % Load
- **Conversion Efficiency – Three-Phase Charger**: % Load
- **Conversion Efficiency – Single-Phase Charger**: % Load

**Typical SCR/SCRF Series One Line Circuit Diagram**

- **Output Transformer**: 120VAC 60Hz
- **Manual Phase Equilibrator Switch**: 50A
- **Quick Disconnect Switch**: 50A
- **DC Output Blocking Diode**: 1000Vpk - 1.2x20 µsec pulse
- **DC Output Ammeter**: 1.5 Scale
- **Current Limit Adjustment**: Potentiometers
- **Remote Alarm Signal**: Summary Alarm
- **Protection**: Forced Load Sharing
- **Power Isolation**: 0 10% Efficiency
- **Summary Alarm**: % Load
- **Conversion Efficiency – Three-Phase Charger**: % Load
- **Conversion Efficiency – Single-Phase Charger**: % Load

For more information, call: 610-330-9000
fax 610-330-8510 • www.hindlepower.com

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HindlePower SCR/SCRF
Series of industrial float chargers is designed to automatically control charging rates for a wide variety of battery types and to simultaneously provide full-rated output for both continuous and intermittent loads.

The chargers are constant voltage devices with automatic current limiting. Voltage regulation and current limiting are controlled by solid-state integrated circuitry to assure maximum performance in minimum space. The SCR/SCRF Series is ideally suited to utilities, communications and other stationary charger applications.

ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>SCR/SCRF Battery Charger DC Output Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Output Voltage</td>
</tr>
<tr>
<td>48VDC</td>
</tr>
<tr>
<td>72VDC</td>
</tr>
</tbody>
</table>

**ELECTRICAL NOISE**

- Filtered (SCRF Series): Output ripple voltage is 30mVrms or less for all line, load and temperature conditions. For three-phase input SCR units, ripple voltage is less than 3% RMS of the rated output. It is continuously monitored against the combined variations of line, load and temperature.
- Ripple voltage is maintained against the combined variations of line, load and temperature without derating.

**Output Current Limit**

- Recovery to ±2.0% of DC voltage
- Recovery to steady state DC voltage

**Output Transient Response**

- ±0.5% of DC voltage setting

**Conversion Efficiency – Three-Phase Charger**

<table>
<thead>
<tr>
<th>% Efficiency</th>
<th>% Load</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
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</table>

**Environmental Specifications**

- Temperature: -40°F to 185°F (-40°C to 85°C)
- Humidity: 90% non-condensing
- Pollution Degree: 2 (UL 508B)
- Vibration: 0.06m/s² or 0.006g

**Design Features**

- Component Selection
- Design for specific applications
- Easy Troubleshooting
- Front panel toggle switch
- Front panel, 2% accuracy, 3.5-inch case and Voltmeter
- Front panel accessories page.

**Environmental Standards**

- UL 508
- CSA C22.2
- NEMA-1

**Design and Construction**

- Full photovoltaic circuit board wired or modularized circuit board. See combined accessories page.
- NEMA-1 enclosures of heavy-gauge steel. Standard cabinets are designed to provide a system life of 100,000 hours minimum.
- Tap adjustments are not required.
- A complete service manual, identification and circuit-symbol accessory. See accessories page.
SCR/SCRF BATTERY CHARGER OPTIONAL ACCESSORIES

- Set of latching relays.
  Each relay has one (1) set of isolated, dry form contacts with (SPDT) wired to a terminal strip for customer termination. Alarm contacts are rated for 0.5A @ 120V AC or DC. Indicating lights are red LED's front panel mounted. A "lamp test" switch is provided to visually test the lights and (–) ground detection indicating alarms on this board.

- Timer w/Float Equalize Indicating
  Automatically switches from "equalize" to "float" at end of set time interval.

- Lights
  Replaces float/equalize switch. Charger lights override switches.

- Lamp Test Switch
  "Lamp test" switch is provided for visual inspection of the lights and (–) ground detection indicating alarms on this board.

- Circuit Breaker
  Two-pole DC breaker is installed with "float reset" and "equalize" contact closures from a high performance circuit breaker. Includes a 400A-Frame circuit breaker (temperature compensated). The breaker is listed to UL 1586 and is qualified for use in charging DC sources up to 1000A and 600V.

- Status Indicating Lights
  Special hypalon internal wiring, drip-proof cabinet shields, cabinet heater strips, alarm buzzer, device nameplates, and (–) ground detection indicating alarms on this board.

- Filtered Battery Eliminator
  Provides alarm state when battery has "float" at end of set time interval.

- Ground Detection Alarm Relay
  Provides alarm state when charger terminal strip is rated 15A @ 120V AC or DC to accommodate lights are red LED's front panel mounted. A "lamp test" switch is provided to visually test the lights and (–) ground detection indicating alarms on this board.

- AC Input Voltmeter
  Provides alarm state when charger or all monitored alarm conditions exist on the AC Input voltmeter.

- Input Lightning Arrestors
  Provides additional input protection against lightning-induced transients, circuit and charger output current goes to zero.

- Low DC Voltage Alarm Relay
  Provides alarm state when charger terminals to common ground. In "lamp test" position both terminals are rated 15A @ 120V AC or DC to accommodate lights are red LED's front panel mounted. A "lamp test" switch is provided to visually test the lights and (–) ground detection indicating alarms on this board.

- AC Fuse
  A contact closure from a high performance circuit breaker. Includes a 400A-Frame circuit breaker (temperature compensated). The breaker is listed to UL 1586 and is qualified for use in charging DC sources up to 1000A and 600V.

- Time-Tested Proven Reliability
  Power supplies are designed for utility & general industry, communications & tele-communications, industrial, power grid, military, computing & control systems.

- SCR/SCRF Series
  Single-phase input 3-phase input

For more information, call: 610-330-9000 or all monitored alarm conditions exist on the AC Input voltmeter.

For detailed CAD drawings of all SCR/SCRF NEMA-1 type enclosures