**REDUNDANT POWER PACKAGES** and **MODULAR REDUNDANT SYSTEMS**  
(*Rack Mounting, Wall Mounting & Pluggable*)

Redundant Power Packages (LINEAR) . . . . . Pages B3-B4  
Redundant Power Packages (SWITCHING). . Pages B5-B6  
Pluggable Redundant Power Packages . . . . . Pages B7-B8  
Modular Redundant Systems (LINEAR) . . . . . Pages B9-B10  
Modular Redundant Systems (SWITCHING) . . Pages B11-B12

**AC-DC**  
**single output**

- Shipped Within 9 Days  
- U.L. Recognized (Power Packages on pages B3-B6)  
- Five Year Warranty

**Applications:** Redundant Power should be considered for any equipment where the highest attainable reliability is essential, and an unexpected loss of power would be disastrous. Such applications include communications systems (both voice and data types), computer systems (volatile memory systems in particular), process controls, utility and municipal systems, and security/safety alarm systems.

**Output Redundancy:** Each Redundant Power Package or Modular Redundant System contains two identical power supplies with their outputs interconnected through a diode switching arrangement that will detect any fault condition, isolate it from the system output, and pass only the output of the other supply with no interruption of output power during the transition.

**Input Redundancy:** All Acopian Redundant Power Packages or Modular Redundant Systems may be operated with only one AC power source. However, two isolated sets of AC input connections are provided, so that two independent sources of AC input power may be used, to obtain the additional benefit of input power redundancy. By feeding one input through a battery-backup power source (UPS), DC output power will be maintained even if both AC power sources should fail.

**Serviceability:** A defective power supply can be rapidly and safely changed while the other supply continues to furnish uninterrupted power to the load. All input, output and alarm-contact connections are at the rear of the assembly for Rack Mounting models or on the front for Wall Mounting models or Modular Systems. For Rack Mounting models, the chassis slides and handles options are recommended for applications where it is desired to service the Redundant Power Package without removing it from the rack.

**Operation:** The output voltage of the primary supply is set approximately 0.2 volt higher than that of the backup supply. Under this condition, the backup supply’s diode is not forward biased; only the primary supply delivers current to the load. If the output voltage of the primary supply decreases by more than 0.2 volt, the situation is reversed and only the backup supply delivers load current. There is no interruption of output power during the transition.

**Monitoring Circuitry:** Acopian Redundants contain two voltage monitoring circuits with relays, the contacts of which are available to control external failure alarms or other circuitry. The contact wiring of the two relays is connected in cascade, to simulate a single set of Form C contacts which switches if the output voltage of either power supply decreases by more than 2.0 volts from the nominal rating (3.0 volts for Linear models with outputs over 49 volts; 4.0 volts for Switching models with outputs over 49 volts).

**Overvoltage Protection:** Automatic recovery. Each power supply contains an overvoltage protection circuit, to assure that neither power supply output will significantly exceed the nominal output voltage rating under any condition, including incorrect application and misadjustment.
Simplified Diagram for Redundant Power Packages

(see page B8 for Simplified Diagram of the Pluggable Redundant Power Packages or page B10 for Simplified Diagram of the Modular Redundant Systems)

SPECIFICATIONS (for all Redundant Power Packages & Modular Redundant Systems)

Input Voltage: (A separate set of AC input terminals is provided for each power supply, so that if two sources of AC input power are available, one may be used for each supply and so reduce the possibility of output dropout due to loss of input power.)

- **Linear (all models):** 105-125 VAC, 50-400 Hz, single phase.
- **Switching (Redundant Power Packages):** 90-132 VAC, 49-61 Hz, single phase.
  For models R24W7, RWL24W7, R28W7, RWL28W7, R40W7 and RWL48W7, the use of 30A lines is recommended.
  When operating on 50 Hz input, derate output by 5%.
- **Switching (Pluggable Redundant Power Packages):** 90-265 VAC, 49-420 Hz, single phase.
- **Switching (Modular Redundant Systems):** 90-265 VAC, 49-420 Hz, single phase.

Remote Voltage Sensing: Provision for sensing the output voltage across the load, so that drops in the load lines are compensated, is a standard feature.

Output Voltage:
- Normal mode: Nominal voltage shown in tables.
- Backup mode: 0.2 volt less than nominal voltage shown in tables.

Output Regulation:
- **Line:** ±0.05%
- **Load:** ±0.05% (Dynamic regulation - does not include 0.2 volt shift which occurs during switchover to lower-set backup supply)

Load Protection: Overvoltage protection.

Overload/Short Circuit Protection: Foldback current limiting with automatic recovery (Switching Modular Redundant Systems and Pluggable Redundant Power Packages have current limiting with automatic recovery).

Polarity: Output is floating; either positive or negative output terminal may be grounded or floated up to 300 volts above ground.

Output Monitoring:
- **Redundant Power Packages:** A separate voltmeter for each output (standard). Ammeters available; see Options.
- **Modular Redundant Systems:** ‘Output Present’ LED for each power supply is located on the Integration Module.
  (‘Output Present’ green LEDs are also located on each power supply (DC on) on the Switching Regulated Modular Redundant Systems.)

Alarm Relay Contact Ratings: 120 VAC, 8A/ 60 Vdc, 1A. (To comply with SELV requirements, limit switched voltage to 60Vdc/42 VAC.)

Temperature Coefficient: 0.02%/°C (Typical).

Ambient Operating Temperature:
- **Linear:** -20 to +71°C.
- **Switching:** 0 to +71°C.

Storage Temperature:
- **Linear:** -55 to +85°C.
- **Switching:** -40 to +85°C.

Terminal Strip Cover: Clips on.
LINEAR REGULATED
REDUNDANT POWER PACKAGES
Rack Mounting & Wall Mounting
AC-DC
single output

- Shipped Within 9 Days
- All Models U.L. Recognized
- Five Year Warranty

An Acopian Redundant Power Package is installed by simply connecting the AC input and DC output terminals. All wiring (including isolation diodes, output monitor circuits, switches, meters, adjustments and connectors) has been done for you.

OPTIONS

Add option suffixes in alphabetical order. Example: R5H16AH-230.

Ammeters: One for each output. For models in case sizes 3R14 and 317R18 two volt/ammeters, each with switch, are substituted for the standard voltmeters. Add suffix “A” to model number and $120.00 to price.

Audible Alarms: Piercing whistle alerts personnel to a voltage lower than normal. Front panel mounted, one for each power supply. When this option is included and the alarm contacts are also used, meeting SELV levels requires that the input voltages be no greater than 125 VAC. To order, add suffix “K” to model number and $90.00 to price.

Separate Alarm Contacts for each Power Supply: If a power supply’s output is incorrect, using two alarms permits remotely identifying that power supply. Each contact set is Form C (SPDT). To order, add suffix “R” to model number and $35.00 to price. (Cannot combine “K” and “R” options on Wall Mounting units.)

Handles (for Rack Mounting models): Add suffix “H” to model number and $30.00 to price.

Chassis Slides (for Rack Mounting models): For racks having rear mounting rails spaced 20” to 26” behind the front panel. To order, add suffix “S” to model number and $90.00 to price.

230 Volt Input: For operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix “-230” to model number and $75.00 to price. Requires two additional days.

### Linear Regulated REDUNDANT POWER PACKAGES

<table>
<thead>
<tr>
<th>Nominal Output Voltage</th>
<th>Adjust Range ±V</th>
<th>Output Current Amps. at 85°C</th>
<th>RipplemV RMS</th>
<th>Rack Mounting Models</th>
<th>Wall Mounting Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>5, .5</td>
<td>2.6</td>
<td>2.5</td>
<td>2.4</td>
<td>1305</td>
<td>3R5NX</td>
</tr>
<tr>
<td>5, .5</td>
<td>5.3</td>
<td>4.4</td>
<td>3.5</td>
<td>1415</td>
<td>R5M6</td>
</tr>
<tr>
<td>5, .5</td>
<td>11</td>
<td>9.3</td>
<td>7.5</td>
<td>1530</td>
<td>R5M13</td>
</tr>
<tr>
<td>5, .5</td>
<td>24</td>
<td>17</td>
<td>14</td>
<td>1750</td>
<td>R12H11</td>
</tr>
<tr>
<td>5, .5</td>
<td>28</td>
<td>23</td>
<td>19</td>
<td>1980</td>
<td>R16H16</td>
</tr>
<tr>
<td>12, .5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1305</td>
<td>R12BNX</td>
</tr>
<tr>
<td>12, .5</td>
<td>3.5</td>
<td>3.5</td>
<td>2.5</td>
<td>1415</td>
<td>R122M6</td>
</tr>
<tr>
<td>12, .5</td>
<td>6</td>
<td>5.5</td>
<td>5.5</td>
<td>1530</td>
<td>R122M13</td>
</tr>
<tr>
<td>12, .5</td>
<td>16</td>
<td>13.8</td>
<td>11.2</td>
<td>1750</td>
<td>R122H11</td>
</tr>
<tr>
<td>12, .5</td>
<td>20</td>
<td>17</td>
<td>14.2</td>
<td>1980</td>
<td>R162H16</td>
</tr>
<tr>
<td>15, .5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1305</td>
<td>R15NX</td>
</tr>
<tr>
<td>15, .5</td>
<td>4</td>
<td>3.8</td>
<td>3.6</td>
<td>1415</td>
<td>R15M9</td>
</tr>
<tr>
<td>15, .5</td>
<td>5.5</td>
<td>6</td>
<td>5.5</td>
<td>1530</td>
<td>R15M13</td>
</tr>
<tr>
<td>15, .5</td>
<td>14.7</td>
<td>12.5</td>
<td>10.3</td>
<td>1750</td>
<td>R15H11</td>
</tr>
<tr>
<td>15, .5</td>
<td>18.7</td>
<td>16</td>
<td>13.3</td>
<td>1980</td>
<td>R16H16</td>
</tr>
<tr>
<td>24, .5</td>
<td>.9</td>
<td>.9</td>
<td>.9</td>
<td>1305</td>
<td>R242M4</td>
</tr>
<tr>
<td>24, .5</td>
<td>3</td>
<td>2.7</td>
<td>2.4</td>
<td>1415</td>
<td>R242M9</td>
</tr>
<tr>
<td>24, .5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>1530</td>
<td>R242M13</td>
</tr>
<tr>
<td>24, .5</td>
<td>11.7</td>
<td>10.2</td>
<td>8.7</td>
<td>1750</td>
<td>R242H11</td>
</tr>
<tr>
<td>24, .5</td>
<td>14.7</td>
<td>12</td>
<td>10.7</td>
<td>1980</td>
<td>R242H16</td>
</tr>
<tr>
<td>28, .5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1305</td>
<td>R282M4</td>
</tr>
<tr>
<td>28, .5</td>
<td>2.7</td>
<td>2.6</td>
<td>2.5</td>
<td>1415</td>
<td>R282M9</td>
</tr>
<tr>
<td>28, .5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>1530</td>
<td>R282M13</td>
</tr>
<tr>
<td>28, .5</td>
<td>10.5</td>
<td>9.2</td>
<td>8.8</td>
<td>1750</td>
<td>R282H11</td>
</tr>
<tr>
<td>28, .5</td>
<td>14</td>
<td>12</td>
<td>11</td>
<td>1980</td>
<td>R282H16</td>
</tr>
<tr>
<td>48, .5</td>
<td>.4</td>
<td>.4</td>
<td>.4</td>
<td>1340</td>
<td>R482M4</td>
</tr>
<tr>
<td>48, .5</td>
<td>1.6</td>
<td>1.4</td>
<td>1.2</td>
<td>1470</td>
<td>R482M9</td>
</tr>
<tr>
<td>48, .5</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>1580</td>
<td>R482M13</td>
</tr>
<tr>
<td>48, .5</td>
<td>6</td>
<td>5</td>
<td>5</td>
<td>1610</td>
<td>R484H11</td>
</tr>
<tr>
<td>48, .5</td>
<td>1.6</td>
<td>1.6</td>
<td>1.6</td>
<td>1717</td>
<td>R484H16</td>
</tr>
<tr>
<td>60, 1</td>
<td>.25</td>
<td>.25</td>
<td>.25</td>
<td>1375</td>
<td>R602M4</td>
</tr>
<tr>
<td>60, 1</td>
<td>1</td>
<td>.8</td>
<td>.8</td>
<td>1500</td>
<td>R602M9</td>
</tr>
<tr>
<td>60, 1</td>
<td>2.5</td>
<td>2.1</td>
<td>1.7</td>
<td>1610</td>
<td>R602M13</td>
</tr>
<tr>
<td>60, 1</td>
<td>5</td>
<td>4.1</td>
<td>3.3</td>
<td>1840</td>
<td>R60H11</td>
</tr>
<tr>
<td>60, 1</td>
<td>7</td>
<td>5.8</td>
<td>4.8</td>
<td>2140</td>
<td>R60H16</td>
</tr>
<tr>
<td>120, 1</td>
<td>.12</td>
<td>.12</td>
<td>.12</td>
<td>1395</td>
<td>R1202M4</td>
</tr>
<tr>
<td>120, 1</td>
<td>.5</td>
<td>.5</td>
<td>.4</td>
<td>1530</td>
<td>R1202M6</td>
</tr>
<tr>
<td>120, 1</td>
<td>1.2</td>
<td>1.1</td>
<td>1.1</td>
<td>1640</td>
<td>R1202M13</td>
</tr>
<tr>
<td>120, 1</td>
<td>2.5</td>
<td>2</td>
<td>1.6</td>
<td>1880</td>
<td>R1202H11</td>
</tr>
<tr>
<td>120, 1</td>
<td>3.5</td>
<td>2.9</td>
<td>2.3</td>
<td>2190</td>
<td>R1202H16</td>
</tr>
<tr>
<td>125, 1</td>
<td>.12</td>
<td>.12</td>
<td>.12</td>
<td>1420</td>
<td>R1252M4</td>
</tr>
<tr>
<td>125, 1</td>
<td>.4</td>
<td>.4</td>
<td>.4</td>
<td>1550</td>
<td>R1252M6</td>
</tr>
<tr>
<td>125, 1</td>
<td>1.2</td>
<td>1.1</td>
<td>1.1</td>
<td>1665</td>
<td>R1252M13</td>
</tr>
<tr>
<td>125, 1</td>
<td>2.4</td>
<td>1.9</td>
<td>1.5</td>
<td>1896</td>
<td>R1252H11</td>
</tr>
<tr>
<td>125, 1</td>
<td>3.4</td>
<td>2.8</td>
<td>2.3</td>
<td>2220</td>
<td>R1252H16</td>
</tr>
</tbody>
</table>

### Specifications and other information, see pages B1 & B2.

For Specifications and other information, see pages B1 & B2.

---

**For instructions on how to download the full manual, please visit our website at [www.acopian.com](http://www.acopian.com) or contact us at (610) 258-5441.**
PARALLELABLE “SEMISYSTEM” POWER SUPPLIES
LINEAR REGULATED
Two units connected in parallel function the same as a Redundant Power Package.

- Shipped Within 9 Days
- Five Year Warranty
- All Models U.L. Recognized

Each supply contains a voltmeter, isolation diodes, a voltage monitor circuit providing contacts for control of an external alarm (or built-in audible alarm) and overvoltage protection circuit, so that two paralleled units are functionally equivalent to a Redundant Power Package. All connections are by means of a Jones connector (mate provided), so that one supply may be quickly, easily and safely installed in or removed from the rack while another provides uninterrupted power to the load. For a redundant system, order two units.

Specifications: Same as shown under SPECIFICATIONS on page B2 for Linear Redundant Power Packages.

Case Size: 5 3/4" x 19" panel, 16 3/4" deep. (53 lbs.)
To allow for mating connector and radius of wiring, mounting space should be at least 20” deep.

PARALLELABLE “SEMISYSTEM” POWER SUPPLIES
Linear Regulated
For a redundant system, order two units.

<table>
<thead>
<tr>
<th>Nominal Output Voltage</th>
<th>Adjust Range ±V</th>
<th>Output Current Amps. at 40°C</th>
<th>Ripple mV RMS</th>
<th>(S) Price</th>
<th>Model</th>
<th>Case Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>.5</td>
<td>55</td>
<td>43</td>
<td>1</td>
<td>R5PH17</td>
<td>5R17</td>
</tr>
<tr>
<td>12</td>
<td>.5</td>
<td>41</td>
<td>32</td>
<td>1</td>
<td>R12PH17</td>
<td>5R17</td>
</tr>
<tr>
<td>15</td>
<td>.5</td>
<td>37</td>
<td>29</td>
<td>1</td>
<td>R15PH17</td>
<td>5R17</td>
</tr>
<tr>
<td>24</td>
<td>.5</td>
<td>28</td>
<td>22</td>
<td>1</td>
<td>R24PH17</td>
<td>5R17</td>
</tr>
<tr>
<td>28</td>
<td>.5</td>
<td>27</td>
<td>21</td>
<td>1</td>
<td>R28PH17</td>
<td>5R17</td>
</tr>
<tr>
<td>48</td>
<td>.5</td>
<td>15</td>
<td>12</td>
<td>1</td>
<td>R48PH17</td>
<td>5R17</td>
</tr>
</tbody>
</table>

OPTIONS
Add option suffixes in alphabetical order.

Ammeter: Add suffix “A” to model number and $60.00 to unit price.

Handles: Add suffix “H” to model number and $30.00 to unit price.

Audible Alarm: Whistle alarms personnel to voltage lower than normal. Front panel mounted. Units with this option do not have provision for control of an external alarm. Add suffix “K” to model number and $45.00 to unit price.

230 Volt Input: For operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix “-230” to model number and $40.00 to unit price. Requires two additional days.
SWITCHING REGULATED REDUNDANT POWER PACKAGES
Rack Mounting & Wall Mounting
AC-DC
single output

- Shipped Within 9 Days
- All Models U.L. Recognized
- Five Year Warranty

An Acopian Redundant Power Package is installed by simply connecting the AC input and DC output terminals. All wiring (including isolation diodes, output monitor circuits, switches, meters, adjustments and connectors) has been done for you.

OPTIONS

Ammeters: One for each output. Add suffix letter “A” to model number and $120 to price.

Audible Alarms: Piercing whistle alerts personnel if the power supply’s output deviates by more than 2 volts from the nominal rating. Front panel mounted, one for each power supply. When this option is included and the alarm contacts are also used, meeting SELV levels requires that the input voltages be no greater than 125 VAC. To order, add suffix “K” to model number and $90.00 to price.

Separate Alarm Contacts for each Power Supply: If a power supply’s output is incorrect, using two alarms permits remotely identifying that power supply. Each contact set is Form C (SPDT). To order, add suffix “R” to model number and $35.00 to price. (Cannot combine “K” and “R” options on Wall Mounting units.)

Handles (for Rack Mounting models): Add suffix “H” to model number and $30.00 to price.

Chassis Slides (for Rack Mounting models): For racks having rear mounting rails spaced 20” to 26” behind the front panel. To order, add suffix “S” to model number and $90.00 to price.

230 Volt Input: For operation on inputs of 180-264 VAC, 49-61 Hz. To order, add suffix “-230” to model number and $100.00 to price. Requires two additional days.

For Specifications and other information, see pages B1 & B2.

Rack Mounting Case Sizes:
5RW16 5¼” x 19” panel, 16¾” deep. (21 lb.)
5RW18 5¼” x 19” panel, 18¾” deep. (27 lb.)
5RW22 5¼” x 19” panel, 22¾” deep. (32 lb.)


<table>
<thead>
<tr>
<th>Nominal Output Voltage</th>
<th>Adjust Range ±V</th>
<th>Output Current, Amps. at 40°C</th>
<th>Ripple mV (at 25 MHz BW)</th>
<th>Rack Mounting Models</th>
<th>Wall Mounting Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>.5</td>
<td>26 22 18</td>
<td>15 100</td>
<td>2320 R12W6 5RW16</td>
<td>2620 R12W6 5RW16</td>
</tr>
<tr>
<td>12</td>
<td>.5</td>
<td>41 35 28</td>
<td>15 100</td>
<td>2735 R12W9 5RW16</td>
<td>3065 R12W9 5RW16</td>
</tr>
<tr>
<td>12</td>
<td>.5</td>
<td>61 52 42</td>
<td>15 100</td>
<td>3195 R12G7 5RW22</td>
<td>3525 R12G7 5RW22</td>
</tr>
<tr>
<td>15</td>
<td>.5</td>
<td>21 18 15</td>
<td>15 100</td>
<td>2320 R15W6 5RW16</td>
<td>2620 R15W6 5RW16</td>
</tr>
<tr>
<td>15</td>
<td>.5</td>
<td>33 28 23</td>
<td>15 100</td>
<td>2735 R15W9 5RW18</td>
<td>3065 R15W9 5RW18</td>
</tr>
<tr>
<td>15</td>
<td>.5</td>
<td>49 42 34</td>
<td>15 100</td>
<td>3195 R15G7 5RW22</td>
<td>3525 R15G7 5RW22</td>
</tr>
<tr>
<td>24</td>
<td>.5</td>
<td>15 13 11</td>
<td>15 100</td>
<td>2320 R24W6 5RW16</td>
<td>2620 R24W6 5RW16</td>
</tr>
<tr>
<td>24</td>
<td>.5</td>
<td>24 21 17</td>
<td>15 100</td>
<td>2735 R24W9 5RW18</td>
<td>3065 R24W9 5RW18</td>
</tr>
<tr>
<td>24</td>
<td>.5</td>
<td>36 31 25</td>
<td>15 100</td>
<td>3195 R24G7 5RW22</td>
<td>3525 R24G7 5RW22</td>
</tr>
<tr>
<td>24</td>
<td>.5</td>
<td>50 42 35</td>
<td>15 100</td>
<td>3410 R24W7 5RW22</td>
<td>3750 R24W7 5RW22</td>
</tr>
<tr>
<td>28</td>
<td>.5</td>
<td>13 11 9</td>
<td>15 100</td>
<td>2320 R28W6 5RW16</td>
<td>2620 R28W6 5RW16</td>
</tr>
<tr>
<td>28</td>
<td>.5</td>
<td>20 17 14</td>
<td>15 100</td>
<td>2735 R28W9 5RW18</td>
<td>3065 R28W9 5RW18</td>
</tr>
<tr>
<td>28</td>
<td>.5</td>
<td>30 26 21</td>
<td>15 100</td>
<td>3195 R28G7 5RW22</td>
<td>3525 R28G7 5RW22</td>
</tr>
<tr>
<td>28</td>
<td>.5</td>
<td>42 35 29</td>
<td>15 100</td>
<td>3410 R28W7 5RW22</td>
<td>3750 R28W7 5RW22</td>
</tr>
<tr>
<td>48</td>
<td>.5</td>
<td>8 7 5</td>
<td>25 150</td>
<td>2320 R48W6 5RW16</td>
<td>2620 R48W6 5RW16</td>
</tr>
<tr>
<td>48</td>
<td>.5</td>
<td>12 10 8</td>
<td>25 150</td>
<td>2735 R48W9 5RW18</td>
<td>3065 R48W9 5RW18</td>
</tr>
<tr>
<td>48</td>
<td>.5</td>
<td>19 16 13</td>
<td>25 150</td>
<td>3195 R48G7 5RW22</td>
<td>3525 R48G7 5RW22</td>
</tr>
<tr>
<td>48</td>
<td>.5</td>
<td>25 21 17</td>
<td>25 150</td>
<td>3410 R48W7 5RW22</td>
<td>3750 R48W7 5RW22</td>
</tr>
</tbody>
</table>
Wall Mounting

Wall Mounting Case Sizes:

<table>
<thead>
<tr>
<th>Case Size</th>
<th>H</th>
<th>W</th>
<th>M</th>
<th>V</th>
<th>T</th>
<th>Depth</th>
<th>Approx. Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>317R18</td>
<td>18½</td>
<td>17</td>
<td>11</td>
<td>14</td>
<td>1½</td>
<td>4¾</td>
<td>18 lb.</td>
</tr>
<tr>
<td>517R18</td>
<td>18½</td>
<td>17</td>
<td>11</td>
<td>14</td>
<td>1½</td>
<td>6</td>
<td>22-26 lb.</td>
</tr>
<tr>
<td>517R20</td>
<td>20½</td>
<td>17</td>
<td>13</td>
<td>13</td>
<td>2</td>
<td>6</td>
<td>34 lb.</td>
</tr>
<tr>
<td>519RW15</td>
<td>15½</td>
<td>19</td>
<td>8</td>
<td>13</td>
<td>3</td>
<td>6¾</td>
<td>24 lb.</td>
</tr>
<tr>
<td>519RW18</td>
<td>18½</td>
<td>19</td>
<td>11</td>
<td>13</td>
<td>3</td>
<td>6¾</td>
<td>27 lb.</td>
</tr>
<tr>
<td>522RW17</td>
<td>17¼</td>
<td>22½</td>
<td>10</td>
<td>16½</td>
<td>3</td>
<td>6¾</td>
<td>33 lb.</td>
</tr>
<tr>
<td>719R20</td>
<td>20½</td>
<td>19</td>
<td>13</td>
<td>13</td>
<td>3</td>
<td>7¼</td>
<td>58 lb.</td>
</tr>
<tr>
<td>719R25</td>
<td>25½</td>
<td>19</td>
<td>18</td>
<td>13</td>
<td>3</td>
<td>7¼</td>
<td>70 lb.</td>
</tr>
</tbody>
</table>

All dimensions in inches.

CONNECTIONS:

RACK MOUNTING

WALL MOUNTING

Additional CONNECTIONS for “R” Option:
Separate Alarm Contacts for each Power Supply
(Note: Connections for ‘ALARM’ in above drawings become connections for ‘PS2 ALARM’)

1/4” dia x 7/8’’
Barrier strips with 6-32 terminal screws

Online Ordering and Instant Quotes for ALL Acopian power supplies at www.acopian.com
131 Loomis Street, Easton, PA 18045 • Phone: (610) 258-5441 • FAX: (610) 258-2842
SWITCHING REGULATED
PLUGGABLE REDUNDANT POWER PACKAGES
(Power Factor Correction and Universal Input)

AC-DC
single output

- Shipped Within 9 Days
- Five Year Warranty

Extremely high overall reliability results from connecting two power sources so that one will continue to provide power to their load even if the other becomes inoperative. Acopian Redundant Power Packages have all the wiring done for you - not only isolation diodes, but also switches, meters, adjustments and output monitor circuits. All you need to do is connect the input and output terminals.

System Description: These models are functionally identical to the other Redundant Power Packages, but have the added advantage that a power supply can literally be changed in seconds.

OPTIONS
Add option suffixes in alphabetical order. Example: R24WP8XAHKS.

Ammeters: One for each output. Add suffix letter “A” to model number and $120.00 to price.

Audible Alarms: Front panel mounted, one for each power supply. Piercing whistle alerts personnel if the power supply’s output deviates by more than 2 volts from the nominal rating (4 volts for 50 to 125 volt models). When this option is included and the alarm contacts are also used, meeting SELV levels requires that the input voltages be no greater than 125 VAC. To order, add suffix “K” to model number and $90.00 to price.

Separate Alarm Contacts for each Power Supply: If a power supply’s output is incorrect, using two alarms permits remotely identifying that power supply. Each contact set is Form C (SPDT). To order, add suffix “R” to model number and $35.00 to price.

Handles: Add suffix “H” to model number and $30.00 to price.

Chassis Slides: For racks having rear mounting rails spaced 20” to 26” behind the front panel. To order, add suffix “S” to model number and $90.00 to price.

For more Specifications and information, see pages B1 & B2.

SPECIFICATIONS

Input Voltage: 90-265 VAC, 49-420 Hz, single phase.
(A separate set of AC input terminals is provided for each power supply, so that if two sources of AC input power are available, one may be used for each supply and so reduce the possibility of output dropout due to loss of input power.)

Power Factor: 0.99 typical at 115 VAC, 60Hz and full load. Complies with EN61000-3-2.

Drift: ±0.1% typical over 8 hours, after 30 minute warmup.

Inrush Current: Cold start, (thermistor limiter) 20A peak @ 115 VAC; 40A peak @ 230 VAC.

Startup Time: 800 mS typical.

Remote Sensing: Compensates up to 0.5 volt drop per output line (1 volt for 50 to 125 volt models), within the limits of the output voltage adjustment range.

Holdup Time: 16 mS minimum.

Transient Response: 300 µS to return to ±1% of output setting. Maximum of ±3% output excursion following a load step change from 50% to 100%.

Switching Frequency: 100 kHz (Typical).

Isolation: Input to output, input to case; 500 VAC. Output to case; 300 VAC.

Thermal Protection: Thermostat, self-resetting.

Cooling: Forced-air cooled; air enters front of system and exits from top.

CASE SIZE: 5RP13 5½” x 19” panel, 12¾” deep. (14 lb. 4 oz.)
### Switching Regulated Pluggable REDUNDANT POWER PACKAGES

<table>
<thead>
<tr>
<th>Nominal Output Voltage</th>
<th>Adjust Range</th>
<th>Output Current</th>
<th>40°C</th>
<th>55°C</th>
<th>71°C</th>
<th>RMS</th>
<th>P-P</th>
<th>Ripple mV (@ 25 MHz BW)</th>
<th>(%)</th>
<th>Price</th>
<th>Model</th>
<th>Case Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3</td>
<td>0.5</td>
<td>15.4</td>
<td>24</td>
<td>20.5</td>
<td>16.8</td>
<td>10</td>
<td>50</td>
<td>1570</td>
<td>3.3</td>
<td>R3.3WP8X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>0.5</td>
<td>15.4</td>
<td>24</td>
<td>20.5</td>
<td>16.8</td>
<td>10</td>
<td>50</td>
<td>1570</td>
<td>3.3</td>
<td>R3.3WP8X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>5.5</td>
<td>0.5</td>
<td>15.4</td>
<td>24</td>
<td>20.5</td>
<td>16.8</td>
<td>10</td>
<td>50</td>
<td>1570</td>
<td>5</td>
<td>R5WP8P6</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>5.5</td>
<td>0.5</td>
<td>15.4</td>
<td>24</td>
<td>20.5</td>
<td>16.8</td>
<td>10</td>
<td>50</td>
<td>1570</td>
<td>5</td>
<td>R5WP8P6</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>6.5</td>
<td>0.5</td>
<td>15.4</td>
<td>24</td>
<td>20.5</td>
<td>16.8</td>
<td>10</td>
<td>50</td>
<td>1570</td>
<td>6</td>
<td>R6WP8P6</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>6.5</td>
<td>0.5</td>
<td>15.4</td>
<td>24</td>
<td>20.5</td>
<td>16.8</td>
<td>10</td>
<td>50</td>
<td>1570</td>
<td>6</td>
<td>R6WP8P6</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>7.5</td>
<td>0.5</td>
<td>14.7</td>
<td>23</td>
<td>19.5</td>
<td>16.1</td>
<td>10</td>
<td>50</td>
<td>1570</td>
<td>7.5</td>
<td>R7WP8P6</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>7.5</td>
<td>0.5</td>
<td>14.7</td>
<td>23</td>
<td>19.5</td>
<td>16.1</td>
<td>10</td>
<td>50</td>
<td>1570</td>
<td>7.5</td>
<td>R7WP8P6</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>8.5</td>
<td>0.5</td>
<td>14.4</td>
<td>23</td>
<td>19.5</td>
<td>16.1</td>
<td>10</td>
<td>50</td>
<td>1570</td>
<td>8.5</td>
<td>R8WP8P6</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>8.5</td>
<td>0.5</td>
<td>14.4</td>
<td>23</td>
<td>19.5</td>
<td>16.1</td>
<td>10</td>
<td>50</td>
<td>1570</td>
<td>8.5</td>
<td>R8WP8P6</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>9.5</td>
<td>0.5</td>
<td>14.1</td>
<td>22</td>
<td>18.7</td>
<td>15.4</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>9.5</td>
<td>R9WP8P6</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>9.5</td>
<td>0.5</td>
<td>14.1</td>
<td>22</td>
<td>18.7</td>
<td>15.4</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>9.5</td>
<td>R9WP8P6</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>10.5</td>
<td>0.5</td>
<td>13.5</td>
<td>21</td>
<td>18.5</td>
<td>15</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>10</td>
<td>R10WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>11.5</td>
<td>0.5</td>
<td>13.5</td>
<td>21</td>
<td>18.5</td>
<td>15</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>11</td>
<td>R10WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>12.5</td>
<td>0.5</td>
<td>12.3</td>
<td>20</td>
<td>17</td>
<td>14</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>12</td>
<td>R12WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>13.5</td>
<td>0.5</td>
<td>11.3</td>
<td>20</td>
<td>17</td>
<td>14</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>13</td>
<td>R12WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>14.5</td>
<td>0.5</td>
<td>10.9</td>
<td>19</td>
<td>16.1</td>
<td>14.1</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>14</td>
<td>R14WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>15.5</td>
<td>0.5</td>
<td>10.2</td>
<td>19</td>
<td>16.1</td>
<td>14.1</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>15</td>
<td>R15WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>16.5</td>
<td>0.5</td>
<td>9.5</td>
<td>19</td>
<td>16.1</td>
<td>14.1</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>16</td>
<td>R15WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>17.5</td>
<td>0.5</td>
<td>8.5</td>
<td>19</td>
<td>16.1</td>
<td>14.1</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>17</td>
<td>R18WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>18.5</td>
<td>0.5</td>
<td>8.5</td>
<td>19</td>
<td>16.1</td>
<td>14.1</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>18</td>
<td>R18WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>19.5</td>
<td>0.5</td>
<td>8.5</td>
<td>19</td>
<td>16.1</td>
<td>14.1</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>19</td>
<td>R18WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>20.5</td>
<td>0.5</td>
<td>7.6</td>
<td>19</td>
<td>16.1</td>
<td>14.1</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>20</td>
<td>R20WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>21.5</td>
<td>0.5</td>
<td>7.6</td>
<td>19</td>
<td>16.1</td>
<td>14.1</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>21</td>
<td>R20WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>22.5</td>
<td>0.5</td>
<td>7.6</td>
<td>19</td>
<td>16.1</td>
<td>14.1</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>22</td>
<td>R20WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
<tr>
<td>23.5</td>
<td>0.5</td>
<td>7.6</td>
<td>19</td>
<td>16.1</td>
<td>14.1</td>
<td>15</td>
<td>100</td>
<td>1570</td>
<td>23</td>
<td>R20WP8P6X</td>
<td>SRP13</td>
<td></td>
</tr>
</tbody>
</table>

### CONNECTIONS:

Additional CONNECTIONS for “R” Option:
Separate Alarm Contacts for each Power Supply
(Note: Connections for ‘ALARM’ in the above drawing become connections for ‘PS2 ALARM’)

---

**Simplified Diagram for Pluggable Redundant Power Packages**

[Diagram showing power supply connections with ALARM, INPUT 1, INPUT 2, DC Output, AC Supply, and Ammeters indicated.]

- **Almeters optional**
LINEAR REGULATED MODULAR REDUNDANT SYSTEMS

AC-DC

single output

- Shipped Within 9 Days
- Five Year Warranty

These systems have the versatility to be mounted in a wide variety of ways - within a system cabinet, on a DIN rail or to a wall. Another benefit is that the three modules need not be mounted together, so if a control panel is crowded, just the Integration Module may be mounted there and the power supplies mounted elsewhere.

System Description: Each Modular Redundant DC Power System consists of three units: two identical power supplies connected to an Integration Module by 24" long cables. The Integration Module includes the diodes for isolating the power supply outputs, AC input switches, input fuses, LED 'output present' indicators, fault alarm circuits, and the umbilical cables which plug into the power supplies. Connections for the AC inputs, redundant DC output and failure alarm relays are on a screw terminal strip.

Mounting: Each module has threaded mounting holes which permit mounting to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. To mount from the power supply side of the mounting surface or for DIN rail mounting, use an Accessory Mounting Kit (see page B10).

Interconnection: The Integration Module has two 24 inch long cables.

OPTIONS

Cable lengths: Although 24" is standard, any other length from 12" to 60" may be ordered as an option. To order, add suffix "C??" to model number and $60.00 to price. Replace the "??" with the cable length desired. For example, if you are ordering Model RM24M9 with 4 foot (48") cables, the model number would be RM24M9C48, and the price would be $1130.00+$60.00=$1190.00.

230 Volt Input: All models can be alternately furnished for operation on inputs of 210-250 VAC, 50-400 Hz. To order, add suffix "~230" to model number and $80.00 to price. The "~230" option requires two additional days.

For Specifications and other information, see pages B1 & B2.
INTEGRATION MODULE

POWER SUPPLIES
(Two per Modular Redundant System)

ACCESSORY MOUNTING KITS

- **FOR WALL MOUNTING** (See page H3 for illustration.)
  These kits provide a way of mounting power supplies on a wall or panel when the other side of the mounting surface is inaccessible. Each kit consists of four aluminum brackets and four machine screws for fastening them to the power supply, effectively adding mounting flanges to the power supply.

  - For case sizes RM6, CM6, CM9, CM13, CH11, CH16
    - GB8 Mounting Kit (#6-32 mounting holes) . . . . $10
  
  - For case size CN8
    - NP6 Mounting Kit (#6-32 mounting holes) . . . . $10
  
  - For case size CN8H
    - NP6L Mounting Kit (#6-32 mounting holes) . . . . $10
      - Model NP6L consists of two brackets 1.5" long and two 2.5" long brackets (to extend beyond heat sink).

- **FOR DIN RAIL MOUNTING** (See page H3 for illustration.)

**For Rear Mounting**

  - GR35DIN Mounting Kit ..... $15.00
    - Fits on case sizes RM6, CM6, CM9.
    - (Can be used, but not recommended, on case size CM13.)
  
  - NPR35DIN Mounting Kit ..... $15.00
    - Fits on case sizes CN8H, CN8T.

**For Horizontal Mounting**

  - CH35DIN Mounting Kit ..... $15.00
    - Fits on case size RM6.
  
  - GH35DIN Mounting Kit ..... $15.00
    - Fits on case sizes CM6, CM9, CM13.
  
  - NPH35DIN Mounting Kit ..... $15.00
    - Fits on case sizes CN8H, CN8T.

**For Vertical Mounting**

  - NPV35DIN Mounting Kit ..... $15.00
    - Fits on case sizes CN8H, CN8T.

- **All dimensions in inches.**

   For REAR MOUNTING, remove original screw(4) and use 8-32 Type F self-tapping screws. They should extend at least 5/16" (0.312") into the power supply case.

   For REAR MOUNTING of CN8H and CN8T cases, remove original 6-32 screws(4). These screws may then be used for mounting, provided they extend at least 1/4" (0.250") into the power supply case.
SWITCHING REGULATED MODULAR REDUNDANT SYSTEMS
(Power Factor Correction and Universal Input)

AC-DC single output

• Shipped Within 9 Days
• Five Year Warranty

These systems have the versatility to be mounted in a wide variety of ways - within a system cabinet, on a DIN rail or to a wall. Another benefit is that the three modules need not be mounted together, so that if a control panel is crowded, just the Integration Module may be mounted there and the power supplies mounted elsewhere.

System Description: Each Modular Redundant DC Power System consists of three units: two identical power supplies connected to an Integration Module by 24” long cables. The Integration Module includes the diodes for isolating the power supply outputs, AC input switches, input fuses, LED ‘output present’ indicators, failure alarm circuits, and the umbilical cables which plug into the power supplies. Connections for the AC inputs, redundant DC output and failure alarm relays are on a screw terminal strip.

Mounting: Each module has threaded mounting holes which permit mounting to a chassis, cabinet wall or bracket, or they may be used on a test bench or tabletop. To mount from the power supply side of the mounting surface or for DIN rail mounting, use an Accessory Mounting Kit (see page B12).

Interconnection: The Integration Module has two 24 inch long cables.

OPTIONS

Cable lengths: Although 24” is standard, any other length from 12” to 60’ may be ordered as an option. To order, add suffix “C??” to model number and $60.00 to price. Replace the “??” with the cable length desired. For example, if you are ordering Model RM24WBN8 with 4 foot (48”) cables, the model number would be RM24WBN8C48, and the price would be $1450.00+$60.00=$1510.00.

Simplified Diagram for Modular Redundant Systems:
See page B10

For more Specifications and information, see pages B1 & B2.
INTEGRATION MODULE

Case Size RW6
Approx. Weight: 3 lb. 4 oz.

POWER SUPPLIES
(Two in each Modular Redundant System)

Each plug connects to a power supply.

For REAR MOUNTING, remove original screws(4) and use 8-32 Type F self-tapping screws. They should extend at least 5/16" (0.312") into the power supply case.

All dimensions in inches.

SPECIFICATIONS

Input Voltage: 90-265 VAC, 49-420 Hz, single phase.
(A separate set of AC input terminals is provided for each power supply, so that if two sources of AC input power are available, one may be used for each supply and so reduce the possibility of output dropout due to loss of input power.)

Power Factor: 0.99 typical at 115 VAC, 60Hz and full load. Compiles with EN61000-3-2.

Drift: ±0.1% typical over 8 hours, after 30 minute warmup.

Output Monitoring: ‘Output Present’ green LEDs are located on each power supply (DC on) and on the Integration Module.

Inrush current: Cold start, (thermistor limiter) 20A peak @ 115 VAC; 40A peak @ 230 VAC.

Startup Time: 800 mS typical.

Remote Sensing: Compensates up to 0.5 volt drop per output line (1 volt for 55 to 125 volt models), within the limits of the output voltage adjustment range.

Holdup Time: 16 mS minimum.

Transient Response: 300 µS to return to ±1% of output setting. Maximum of ±3% output excursion following a load step change from 50% to 100%.

Switching Frequency: 100 kHZ (Typical).

Isolation: Input to output, input to case; 300 Vdc. Output to case; 300 Vdc.

Thermal Protection: Thermostat, self-resetting.

Cooling: Forced-air cooled; air enters rear of power supply and exits from top.

ACCESSORY MOUNTING KITS

FOR WALL MOUNTING (See page H3 for illustration.) These kits provide a way of mounting power supplies on a wall or panel when the other side of the mounting surface is inaccessible. Each kit consists of four aluminum brackets and four machine screws for fastening them to the power supply, effectively adding mounting flanges to the power supply.

For case size RW6
GB8 Mounting Kit (48-32 mounting holes) . . . . $10

For case sizes WN8, WN8A
NP6 Mounting Kit (46-32 mounting holes) . . . . $10

FOR DIN RAIL MOUNTING (See page H3 for illustration.)

For Rear Mounting
GR35DIN Mounting Kit ..... $15.00
Fits on case size RW6.

For Horizontal Mounting
CH35DIN Mounting Kit ..... $15.00
Fits on case size RW6.
NPH35DIN Mounting Kit ..... $15.00
Fits on cases WN8, WN8A.

For Vertical Mounting
NPV35DIN Mounting Kit ..... $15.00
Fits on cases WN8, WN8A.

All dimensions in inches.
WALL MOUNTING KITS ...$10
These kits provide a way of mounting power supplies on a wall or panel when the other side of the mounting surface is inaccessible. Each kit consists of four aluminum brackets and four machine screws for fastening them to the power supply, effectively adding mounting flanges to the power supply.

For ‘Gold Box’ and (modular) ‘High Voltage’ power supplies:

**GB8 Mounting Kit** (#8-32 mounting holes)
Can be used on these case sizes:
CM6, CM9, CM13, CH11, CH16, DG5, DG6, DG9, G3, G5, G5D, G6, G9, G13, GT5, GT6, GT9, GT13, H8, H11, H16, HD345, HD355, HA349, HA359, HT11, HT16, LM6A*, LM8A*, LM10A*, M6, M9, M13, RM6, RW6 TG5, TG6, TG9, TG13, TH11, WG7, WM6, WM9, Y3, Y5, Y6, YH11, YA
*For rear mounting brackets horizontally on LM cases only, use GBR Mounting Kit...$15

For ‘Narrow Profile’ power supplies:

**NP6 Mounting Kit** (#6-32 mounting holes)
Can be used on these case sizes:

**NP6L Mounting Kit** (#6-32 mounting holes)
Can be used on these case sizes:
CN8H, N8H, TN8H
Model NP6L consists of two brackets 1.5” long as shown above, and two 2.5” long brackets (to extend beyond heat sink).

DIN RAIL MOUNTING KITS ...$15*

**CH35DIN Mounting Kit** (Horizontal mounting)
Can be used on these case sizes: RM6, RW6

**GH35DIN Mounting Kit** (Horizontal mounting)
Can be used on these case sizes:
CM6 DG5 G3 GT5 M6 TG5 Y3
CM9 DG6 G5 GT6 M9 TG6 Y5
CM13 DG9 G5D GT9 M13 TG9 Y6
G6 GT13 TG13
G9
G13

**GR35DIN Mounting Kit** (Rear mounting)
Can be used on these case sizes:
CM6 DG5 G3 GT5 HD345 M6 RM6 TG5 Y3
CM9 DG6 G5 GT6 HD355 M9 RW6 TG6 Y5
DG9 G5D GT9 TG9 Y6
G6
G9

**LR35DIN Mounting Kit** (Rear mounting)

**LV35DIN Mounting Kit** (Vertical mounting)

**LH35DIN Mounting Kit** (Horizontal mounting)

Can be used on these case sizes: LM6A, LM8A, LM10A
*All DIN Kits for LM cases $20

**NPH35DIN Mounting Kit** (Horizontal mounting)
Can be used on these case sizes:
CN8H DN6A F6T N8H TN6T WN6A
CN8T DN6B F8T N8T TN8H WN6B
DN8 WN8
DN8A WN8A
WN8B

**NPR35DIN Mounting Kit** (Rear mounting)
Can be used on these case sizes:
CN8H F6T N8H TN6T
CN8T F8T N8T TN8H
ACOPIAN SELLS FACTORY DIRECT WORLDWIDE: We do not use representatives or distributors. Contact Acopian for technical information or a quote.

WARRANTY: Acopian power supplies are warranted to be free from defects in material and workmanship for a period of five years (encapsulated devices, for one year) from date of original shipment. Acopian’s obligation under this warranty is limited to repairing any power supply returned to the factory Service Department in Easton, PA or Melbourne, FL, and replacing any defective parts. Mini Encapsulated power supplies are not repairable. Authorization must be obtained from Acopian before a power supply may be returned for repair. Units must be well packed when shipping to Acopian; the repair of any damage incurred during shipment will be charged. Transportation charges are to be paid by the purchaser. A reinspeckion and handling charge will be applied to returned units found to have no defects. If a failure has been caused by misuse, operation in excess of specifications, or modification by the customer, repairs will be billed at cost; in such cases, a cost estimate will be submitted before work is started.

Acopian reserves the right to make changes or improvements in its products without incurring any obligation to install the same on products previously manufactured.

This warranty is in lieu of all other warranties, obligations, and liabilities, expressed or implied, and is the purchaser’s exclusive remedy. Acopian makes no warranty, either express or implied, of merchantability, fitness for a particular purpose or otherwise. In no event shall Acopian be liable whether in contract, tort, or negligence, for special, indirect, incidental or consequential damages of any kind, including loss of business or profits, or any other losses incurred by the purchaser or others, regardless of the party initiating the claim. The Customer’s remedies being limited, at Acopian’s option, to replacement, repair or credit at the price on the date of claim.

The validity, performance and construction of all terms and conditions and any sale made by Acopian shall be determined by the laws of Pennsylvania, without regard to its conflict of law principles, and all parties to the transaction expressly consent to the jurisdiction of such courts and consent to the venue of the Court of Common Pleas for Northampton County, Pennsylvania.

PRICES: The prices shown are F.O.B. our factory; Easton, PA or Melbourne, FL. (‘EXW Factory’ if outside the 50 United States.) All prices and specifications are subject to change without notice.

TERMS: Net 30 days, subject to credit approval. Visa, MasterCard and American Express also accepted.

SHIPPING: Location permitting, small shipments are made by United Parcel Service, FedEx, DHL (international orders) or by Parcel Post; larger shipments, by insured motor freight collect. Shipments can be made by air upon request. Risk of loss shall be F.O.B. Our Factory, even in cases where freight may be prepaid or allowed to destination by Acopian. If equipment is received in damaged condition, it is the customer’s responsibility to contact the carrier and file a claim for damages.

TIME FOR DELIVERY: The time for delivery quoted by Acopian is the time required to ship from our plants. We will not be liable for delays in delivery caused by any reason beyond our control, including but not limited to acts of God, casualty, civil disturbance, labor disputes, transportation or supply difficulties, or any interruption of our facilities, and the quoted time for delivery shall be extended during the continuance of such conditions and for a reasonable time thereafter. In no event will Acopian be liable for any premium transportation, reprocurement, or similar costs incurred by the Customer as a result of conditions beyond Acopian’s control resulting in Acopian’s inability to deliver product in accordance with customer’s requested delivery schedules.

QUANTITY DISCOUNTS: Discounts are available to quantity buyers and are dependent upon the order quantity and the manufacturing scheduling anticipated by the order, and apply only to the quantity and delivery ordered. Partial shipments are considered as separate orders for discounting purposes.

EXPORT ORDERS: A minimum export documentation charge of $60.00 applies. (A minimum charge of $25.00 applies on orders to certain U.S. territories requiring customs forms.)

MOISTURE/FUNGUS PROOFING: Power supplies can be furnished with a moisture and fungus resistant varnish applied to interior surfaces. To order, add the suffix letter F to the model number. This option requires two additional days and is not available on High Voltage, Mini Encapsulated, Rack Mounting, and Gold Box Switching models.

TAGGING: Add $10.00 to price.

TEST DATA: Cost, $35.00 or 2% of order, whichever is greater.

SPECIAL MODELS/MODIFICATIONS: CATALOGED MODELS can be altered at the factory to meet special requirements. Contact the Applications Engineering Department to discuss your needs.

PARTS: The designs used in Acopian power supplies utilize standard components to the greatest practical extent. When replacements are required, the types originally used, or their equivalents, can usually be obtained most quickly from a local electronic components distributor.

Special components, such as transformers, are stocked at the factory warehouses. Contact the Applications Engineering Department for information on the parts required, referencing the model number of the power supply, the circuit designation of the component, and a description.

PURCHASE ORDER ACCEPTANCE: Orders are accepted subject to Acopian’s Terms and Conditions. Any Terms and Conditions of any Purchaser’s order, agreement, or understanding which are in addition to or inconsistent with Acopian’s shall not be binding upon Acopian unless made in writing and accepted over the signature of an authorized officer of Acopian. Orders shall not be considered accepted until entered into production at our plant. Acopian reserves the right to refuse any order. All typographical and clerical errors are subject to correction by Acopian.

RETURNED GOODS: Acopian products are built on a per-order basis, and ordinarily no credit can be extended for their return. No goods will be accepted for return unless authorized in writing by Acopian.

CHANGES: The customer may, by a written notice, request changes within the general scope of the order, in the drawings, designs or specifications; method of shipment; and place of delivery. If any such change causes an increase or decrease in the cost, or the time required for the processing of any part of the order, an equitable adjustment shall be made in the price or delivery schedule, or both, and the order shall be modified in writing accordingly.

CANCELLATION: Suspension or cancellation of orders may be made only upon our written approval and on terms that will indemnify us against all loss.

OVERTIME: It is anticipated that any order will be processed during regular working hours on regular working days. If for any reason the Purchaser requests Acopian to process the order, or any portion of it, outside of such regular working hours, any overtime or other additional expense occasioned thereby shall be billed to and paid by the Purchaser as an extra cost. Acopian reserves the right to decline to process the order outside regular working hours.

CUSTOMER DELAY OF WORK: If the performance of all or any part of the work is delayed or interrupted by Customer’s failure to act within the time specified (or within a reasonable time if no time is specified) and such act is not expressed or implied by the order, an adjustment shall be made in the cost of performance of the order caused by such delay or interruption and the order modified in writing accordingly. Adjustment will also be made in the delivery or performance dates and any other contractual provisions affected by such delay or interruption.

GOVERNMENT SPECIFICATIONS: Pricing is based upon industrial-grade construction, marking, packing, and packaging. Exception is taken to any MIL specifications, and to any requirements for the use of special forms, documentation other than quoted, and Government Source Inspection. Acopian must decline to quote on any other basis.

APPLICATIONS ASSISTANCE: Questions regarding the specifications, features, and use of any Acopian product should be directed to the Applications Engineering Department. A staff of power supply specialists will be pleased to assist you.

ACOPIAN IS AN ISO 9001 CERTIFIED COMPANY