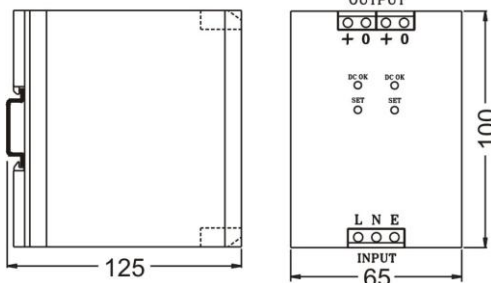


## 70W DUAL OUTPUT



All dimensions in mm

| <b>FEATURES</b>                   | <ul style="list-style-type: none"> <li>• Single Phase Input</li> <li>• Built In Transient protector &amp; EMI filter</li> <li>• Protection against short circuit, overload &amp; overvoltage</li> <li>• Low ripple &amp; noise</li> <li>• Cooling by free air convection</li> </ul>  | <ul style="list-style-type: none"> <li>• Power OK indication, terminations, output set control &amp; rating details on front</li> <li>• 100% full load burn in tested</li> <li>• Low cost</li> <li>• High reliability</li> <li>• Compact</li> </ul> |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|-----------------------------------|--|---|---------------------------|------------|---------------------------|---------------------|---------|---------------------|----------------|-------------------------|----------------|-------------------------|----|----|---------------|--|--|--|--|--|--|--|--|-------------|------------|------------|-----------|------------|--|--|--|--|---------------|-----------|---|-----------|---|--|--|--|--|-------------------|----------|-------------|----------|------------|--|--|--|--|----------------|-----------|-----------|-----------|-----------|--|--|--|--|------------|--------------|--|--------------|--|----------|-----|---------|------|--|--|--|--|------------|---------|--------------|--|--------------|--|-----------|-----|---------|-------|--|--|--|--|-------------|---------|--------------|--|--------------|--|-----------|-----|---------|-------|--|--|--|--|-------------|---------|--------------|--|--------------|--|-----------|-------------------|---------|-------|--|--|--|--|------------|---------|--------------|--|--------------|--|-----------|-------------------|---------|-------|--|--|--|--|-------------|---------|--------------|--|--------------|--|----------|-------------------|---------|-------|--|--|--|--|-----------|---------|--|
| <b>ISOLATION</b>                  | Input – Output : 2KVAC, 1 minute<br>Input – Earth : 2KVAC, 1 minute<br>Output – Earth : 0.5KVAC, 1 minute<br>O/P 1 – O/P 2 : Refer table   |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>EFFICIENCY</b>                 | 70 ~ 75%   |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>O/P VOLTAGE ADJUSTMENT</b>     | +/- 10% of nominal output voltage (Refer Note 5)   |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>OVERLOAD PROTECTION</b>        | 105% ~ 130% of rated load (O/P2 is with internal thermal shutdown)   |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>LINE &amp; LOAD REGULATION</b> | Better than 0.5% for both outputs  |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>HOLD UP TIME</b>               | > 20ms at rated input voltage and load   |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>OPERATING AMBIENT</b>          | 0 ~ 50°C, 95% RH   |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>STORAGE AMBIENT</b>            | -20°C to 85°C  |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>SAFETY STANDARD</b>            | Design refers to EN60950-1   |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>EMC STANDARD</b>               | Design refers to EN55022, EN55024  |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>TERMINATIONS</b>               | Screw type, for 2.5mm sq. wire   |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>MOUNTING</b>                   | 35 mm DIN rail   |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>WEIGHT</b>                     | 490 grams  |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| <b>ORDERING INFORMATION</b>       | <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">NOMINAL INPUT : 230VAC/DC</th> <th colspan="2">NOMINAL INPUT : 110VAC/DC</th> <th rowspan="2">OUTPUT</th> <th rowspan="2">ISOLATION O/P1-O/P2</th> <th rowspan="2">RIPPLE &amp; NOISE</th> <th rowspan="2">OVER VOLTAGE PROTECTION</th> </tr> <tr> <th>AC</th> <th>DC</th> <th>AC</th> <th>DC</th> </tr> </thead> <tbody> <tr> <td>INPUT VOLTAGE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>INPUT RANGE</td> <td>185 ~ 270V</td> <td>200 ~ 360V</td> <td>90 ~ 130V</td> <td>100 ~ 160V</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>I/P FREQUENCY</td> <td>47 ~ 63Hz</td> <td>—</td> <td>47 ~ 63Hz</td> <td>—</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>I/P CURRENT (max)</td> <td>2A @230V</td> <td>0.35A @230V</td> <td>1A @110V</td> <td>0.7A @110V</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>INRUSH CURRENT</td> <td>32A @230V</td> <td>23A @230V</td> <td>16A @110V</td> <td>11A @110V</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="12">ORDER CODE</td> <td colspan="2">G31-70-05-05</td> <td colspan="2">G32-70-05-05</td> <td>+5V : 5A</td> <td rowspan="2">NIL</td> <td>&lt; 100mV</td> <td rowspan="2">&lt; 7V</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td>-5V : 1.5A</td> <td>&lt; 100mV</td> </tr> <tr> <td colspan="2">G31-70-12-12</td> <td colspan="2">G32-70-12-12</td> <td>+12V : 4A</td> <td rowspan="2">NIL</td> <td>&lt; 120mV</td> <td rowspan="2">&lt; 16V</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td>-12V : 1.5A</td> <td>&lt; 120mV</td> </tr> <tr> <td colspan="2">G31-70-15-15</td> <td colspan="2">G32-70-15-15</td> <td>+15V : 3A</td> <td rowspan="2">NIL</td> <td>&lt; 150mV</td> <td rowspan="2">&lt; 20V</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td>-15V : 1.5A</td> <td>&lt; 150mV</td> </tr> <tr> <td colspan="2">G31-70-24-05</td> <td colspan="2">G32-70-24-05</td> <td>+24V : 2A</td> <td rowspan="2">0.5KVAC, 1 minute</td> <td>&lt; 240mV</td> <td rowspan="2">&lt; 30V</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td>+5V : 1.5A</td> <td>&lt; 100mV</td> </tr> <tr> <td colspan="2">G31-70-24-12</td> <td colspan="2">G32-70-24-12</td> <td>+24V : 2A</td> <td rowspan="2">0.5KVAC, 1 minute</td> <td>&lt; 240mV</td> <td rowspan="2">&lt; 30V</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td>+12V : 1.5A</td> <td>&lt; 120mV</td> </tr> <tr> <td colspan="2">G31-70-12-05</td> <td colspan="2">G32-70-12-05</td> <td>12V : 4A</td> <td rowspan="2">0.5KVAC, 1 minute</td> <td>&lt; 120mV</td> <td rowspan="2">&lt; 16V</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td>5V : 1.5A</td> <td>&lt; 100mV</td> </tr> </tbody> </table> |   | NOMINAL INPUT : 230VAC/DC |            | NOMINAL INPUT : 110VAC/DC |                     | OUTPUT  | ISOLATION O/P1-O/P2 | RIPPLE & NOISE | OVER VOLTAGE PROTECTION | AC             | DC                      | AC | DC | INPUT VOLTAGE |  |  |  |  |  |  |  |  | INPUT RANGE | 185 ~ 270V | 200 ~ 360V | 90 ~ 130V | 100 ~ 160V |  |  |  |  | I/P FREQUENCY | 47 ~ 63Hz | — | 47 ~ 63Hz | — |  |  |  |  | I/P CURRENT (max) | 2A @230V | 0.35A @230V | 1A @110V | 0.7A @110V |  |  |  |  | INRUSH CURRENT | 32A @230V | 23A @230V | 16A @110V | 11A @110V |  |  |  |  | ORDER CODE | G31-70-05-05 |  | G32-70-05-05 |  | +5V : 5A | NIL | < 100mV | < 7V |  |  |  |  | -5V : 1.5A | < 100mV | G31-70-12-12 |  | G32-70-12-12 |  | +12V : 4A | NIL | < 120mV | < 16V |  |  |  |  | -12V : 1.5A | < 120mV | G31-70-15-15 |  | G32-70-15-15 |  | +15V : 3A | NIL | < 150mV | < 20V |  |  |  |  | -15V : 1.5A | < 150mV | G31-70-24-05 |  | G32-70-24-05 |  | +24V : 2A | 0.5KVAC, 1 minute | < 240mV | < 30V |  |  |  |  | +5V : 1.5A | < 100mV | G31-70-24-12 |  | G32-70-24-12 |  | +24V : 2A | 0.5KVAC, 1 minute | < 240mV | < 30V |  |  |  |  | +12V : 1.5A | < 120mV | G31-70-12-05 |  | G32-70-12-05 |  | 12V : 4A | 0.5KVAC, 1 minute | < 120mV | < 16V |  |  |  |  | 5V : 1.5A | < 100mV |  |
|                                   | NOMINAL INPUT : 230VAC/DC  |   | NOMINAL INPUT : 110VAC/DC |            | OUTPUT                    | ISOLATION O/P1-O/P2 |         |                     |                |                         | RIPPLE & NOISE | OVER VOLTAGE PROTECTION |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   | AC   | DC  | AC                        | DC         |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| INPUT VOLTAGE                     |  |   |                           |            |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| INPUT RANGE                       | 185 ~ 270V   | 200 ~ 360V  | 90 ~ 130V                 | 100 ~ 160V |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| I/P FREQUENCY                     | 47 ~ 63Hz  | —   | 47 ~ 63Hz                 | —          |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| I/P CURRENT (max)                 | 2A @230V   | 0.35A @230V   | 1A @110V                  | 0.7A @110V |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| INRUSH CURRENT                    | 32A @230V  | 23A @230V   | 16A @110V                 | 11A @110V  |                           |                     |         |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
| ORDER CODE                        | G31-70-05-05   |   | G32-70-05-05              |            | +5V : 5A                  | NIL                 | < 100mV | < 7V                |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   |  |   |                           |            | -5V : 1.5A                |                     | < 100mV |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   | G31-70-12-12   |   | G32-70-12-12              |            | +12V : 4A                 | NIL                 | < 120mV | < 16V               |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   |  |   |                           |            | -12V : 1.5A               |                     | < 120mV |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   | G31-70-15-15   |   | G32-70-15-15              |            | +15V : 3A                 | NIL                 | < 150mV | < 20V               |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   |  |   |                           |            | -15V : 1.5A               |                     | < 150mV |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   | G31-70-24-05   |   | G32-70-24-05              |            | +24V : 2A                 | 0.5KVAC, 1 minute   | < 240mV | < 30V               |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   |  |   |                           |            | +5V : 1.5A                |                     | < 100mV |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   | G31-70-24-12   |   | G32-70-24-12              |            | +24V : 2A                 | 0.5KVAC, 1 minute   | < 240mV | < 30V               |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   |  |   |                           |            | +12V : 1.5A               |                     | < 120mV |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   | G31-70-12-05   |   | G32-70-12-05              |            | 12V : 4A                  | 0.5KVAC, 1 minute   | < 120mV | < 16V               |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |
|                                   |  |   |                           |            | 5V : 1.5A                 |                     | < 100mV |                     |                |                         |                |                         |    |    |               |  |  |  |  |  |  |  |  |             |            |            |           |            |  |  |  |  |               |           |   |           |   |  |  |  |  |                   |          |             |          |            |  |  |  |  |                |           |           |           |           |  |  |  |  |            |              |  |              |  |          |     |         |      |  |  |  |  |            |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |     |         |       |  |  |  |  |             |         |              |  |              |  |           |                   |         |       |  |  |  |  |            |         |              |  |              |  |           |                   |         |       |  |  |  |  |             |         |              |  |              |  |          |                   |         |       |  |  |  |  |           |         |  |

- Note : 1. All parameters measured at nominal input, rated load and 25°C of ambient temperature unless otherwise specified.  
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 100uf parallel capacitor.  
 3. The power supply is intended to be installed as a component inside the enclosure of final equipment. The final equipment must be re-confirmed that it still meets the EMC directives.  
 4. These units are designed for mounting on horizontal DIN rail. Ensure clearance of minimum 35mm from adjacent components for proper ventilation.  
 5. To set slave (O/P2) output at +10%, master output (O/P1) should be set to greater than nominal output voltage (For example: G31-70-12-05, set O/P1 to 12.10V).

