

# TEST DATA OF PDA100F-5

Regulated DC Power Supply  
December 12, 2024

Approved by : Tetsukazu Okamoto  
Design Manager

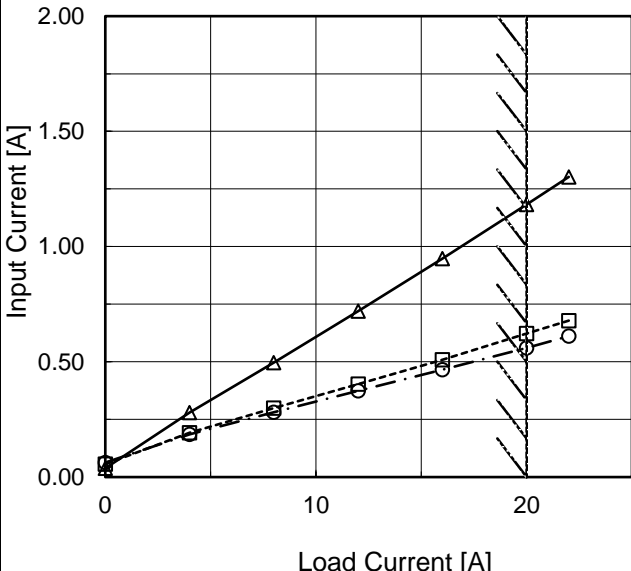
Prepared by : Karki Shankar  
Design Engineer

**COSEL CO.,LTD.**

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| Model            |                    | PDA100F-5   |                    | Temperature 25°C           |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
|------------------|--------------------|---|--------------------|----------------------------|--|------------------|-------------------|--|--|--------------------|--------------------|--------------------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item             |                    | Input Current (by Load Current)   |                    | Testing Circuitry Figure A |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| Object           |                    |   |                    |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.Graph          |                    | <div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>-·-○-·-</div><div>Input Volt. 230V</div></div></div>  <p>Note: Slanted line shows the range of the rated load current.</p>   |                    | 2.Values                   |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
|                  |                    | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>0.038</td><td>0.056</td><td>0.063</td></tr><tr><td>4.00</td><td>0.279</td><td>0.192</td><td>0.186</td></tr><tr><td>8.00</td><td>0.497</td><td>0.299</td><td>0.282</td></tr><tr><td>12.00</td><td>0.720</td><td>0.403</td><td>0.374</td></tr><tr><td>16.00</td><td>0.948</td><td>0.510</td><td>0.466</td></tr><tr><td>20.00</td><td>1.183</td><td>0.623</td><td>0.561</td></tr><tr><td>22.00</td><td>1.302</td><td>0.679</td><td>0.611</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> |                    |                            |  | Load Current [A] | Input Current [A] |  |  | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | 0.038 | 0.056 | 0.063 | 4.00 | 0.279 | 0.192 | 0.186 | 8.00 | 0.497 | 0.299 | 0.282 | 12.00 | 0.720 | 0.403 | 0.374 | 16.00 | 0.948 | 0.510 | 0.466 | 20.00 | 1.183 | 0.623 | 0.561 | 22.00 | 1.302 | 0.679 | 0.611 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Input Current [A]  |   |                    |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
|                  | Input Volt. 100[V] | Input Volt. 200[V]  | Input Volt. 230[V] |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.00             | 0.038              | 0.056   | 0.063              |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 4.00             | 0.279              | 0.192   | 0.186              |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 8.00             | 0.497              | 0.299   | 0.282              |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 12.00            | 0.720              | 0.403   | 0.374              |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 16.00            | 0.948              | 0.510   | 0.466              |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 20.00            | 1.183              | 0.623   | 0.561              |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 22.00            | 1.302              | 0.679   | 0.611              |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| --               | -                  | -   | -                  |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| --               | -                  | -   | -                  |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| --               | -                  | -   | -                  |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| --               | -                  | -   | -                  |                            |  |                  |                   |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |

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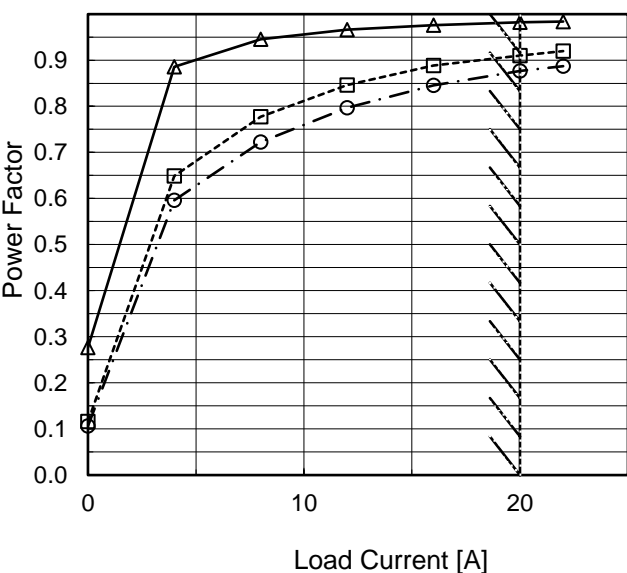
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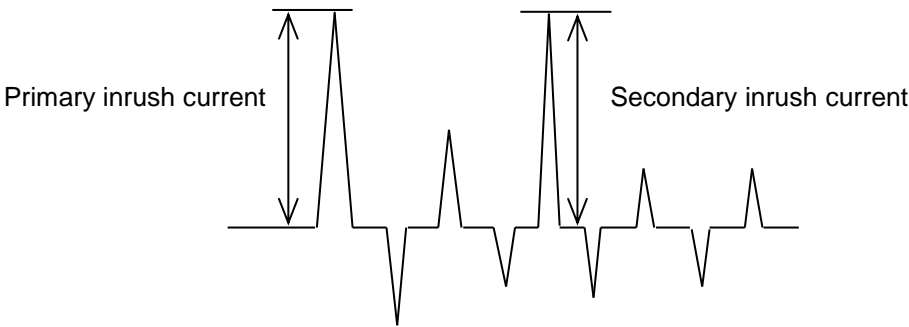
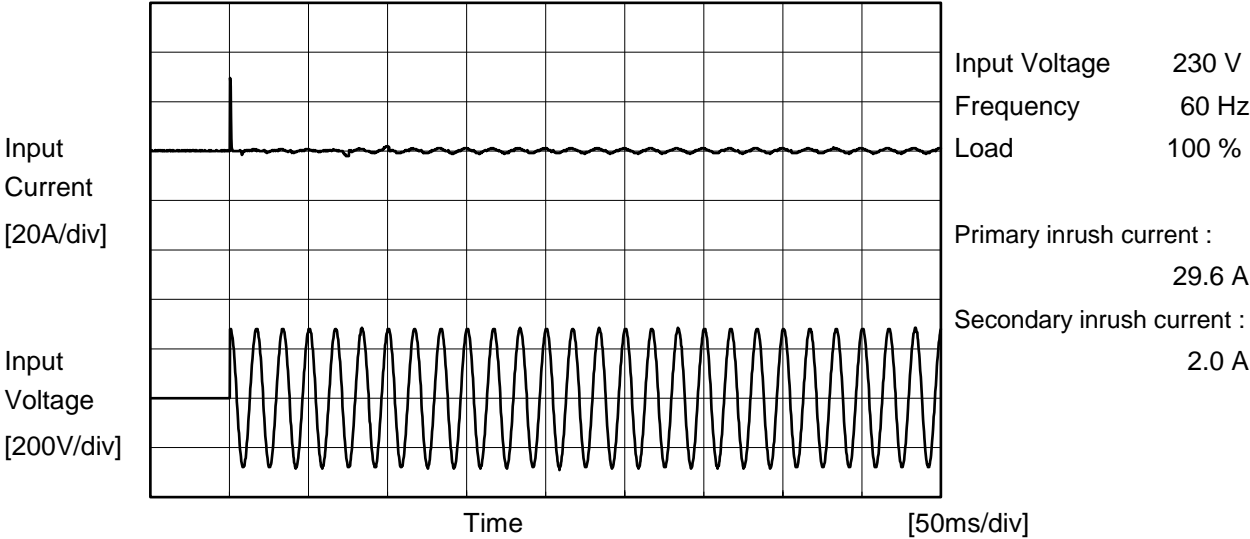
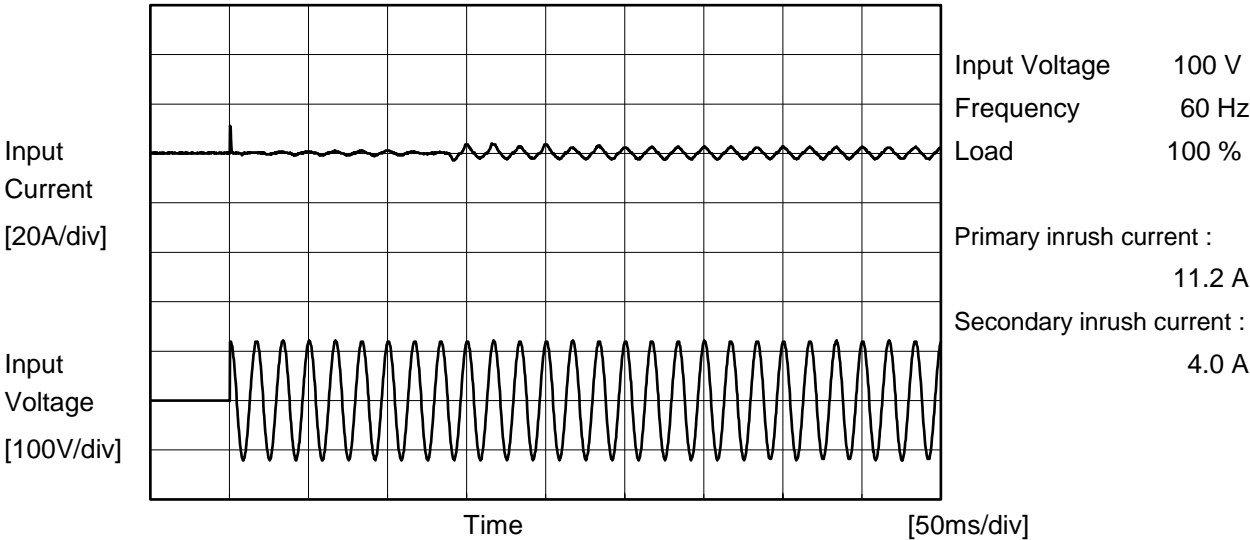
| Model  |          | PDA100F-5                    |          | Temperature<br>Testing Circuitry | 25°C<br>Figure A |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
|--|----------|------------------------------|----------|----------------------------------|------------------|----------|----------|------|---|---|---|------|------|------|------|------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|--|--|
| Item   |          | Efficiency (by Load Current) |          |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| Object   |          |                              |          |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 1.Graph  |          |                              |          | 2.Values                         |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| <div><div><div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Input Volt. 100V</div><div>Input Volt. 200V</div><div>Input Volt. 230V</div></div></div><table><thead><tr><th>Load Current [A]</th><th>100V [%]</th><th>200V [%]</th><th>230V [%]</th></tr></thead><tbody><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4.00</td><td>82.6</td><td>81.9</td><td>80.3</td></tr><tr><td>8.00</td><td>86.5</td><td>87.5</td><td>87.0</td></tr><tr><td>12.00</td><td>87.5</td><td>89.2</td><td>89.0</td></tr><tr><td>16.00</td><td>87.7</td><td>89.7</td><td>89.7</td></tr><tr><td>20.00</td><td>87.4</td><td>89.4</td><td>89.6</td></tr><tr><td>22.00</td><td>87.1</td><td>89.3</td><td>89.4</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></tbody></table></div> |          |                              |          | Load Current [A]                 | 100V [%]         | 200V [%] | 230V [%] | 0.00 | - | - | - | 4.00 | 82.6 | 81.9 | 80.3 | 8.00 | 86.5 | 87.5 | 87.0 | 12.00 | 87.5 | 89.2 | 89.0 | 16.00 | 87.7 | 89.7 | 89.7 | 20.00 | 87.4 | 89.4 | 89.6 | 22.00 | 87.1 | 89.3 | 89.4 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |  |  |
| Load Current [A]   | 100V [%] | 200V [%]                     | 230V [%] |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 0.00   | -        | -                            | -        |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 4.00   | 82.6     | 81.9                         | 80.3     |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 8.00   | 86.5     | 87.5                         | 87.0     |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 12.00  | 87.5     | 89.2                         | 89.0     |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 16.00  | 87.7     | 89.7                         | 89.7     |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 20.00  | 87.4     | 89.4                         | 89.6     |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| 22.00  | 87.1     | 89.3                         | 89.4     |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| --   | -        | -                            | -        |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| --   | -        | -                            | -        |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| --   | -        | -                            | -        |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| --   | -        | -                            | -        |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |
| Note: Slanted line shows the range of the rated load current.  |          |                              |          |                                  |                  |          |          |      |   |   |   |      |      |      |      |      |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |       |      |      |      |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |  |



| Model            |                    | PDA100F-5  | Temperature 25°C<br>Testing Circuitry Figure A |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
|------------------|--------------------|--|--|--------------|--|--|--------------------|--------------------|--------------------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|--|
| Item             |                    | Power Factor (by Load Current)   |  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| Object           |                    |  |  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 1.Graph          |                    | <div>—△— Input Volt. 100V</div> <div>---□--- Input Volt. 200V</div> <div>-·-○-·- Input Volt. 230V</div>    | 2.Values                                       |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
|                  |                    | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Power Factor</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>0.277</td><td>0.116</td><td>0.106</td></tr><tr><td>4.00</td><td>0.885</td><td>0.649</td><td>0.596</td></tr><tr><td>8.00</td><td>0.945</td><td>0.778</td><td>0.722</td></tr><tr><td>12.00</td><td>0.966</td><td>0.846</td><td>0.797</td></tr><tr><td>16.00</td><td>0.976</td><td>0.888</td><td>0.845</td></tr><tr><td>20.00</td><td>0.982</td><td>0.910</td><td>0.877</td></tr><tr><td>22.00</td><td>0.984</td><td>0.920</td><td>0.887</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> | Load Current [A]                               | Power Factor |  |  | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | 0.277 | 0.116 | 0.106 | 4.00 | 0.885 | 0.649 | 0.596 | 8.00 | 0.945 | 0.778 | 0.722 | 12.00 | 0.966 | 0.846 | 0.797 | 16.00 | 0.976 | 0.888 | 0.845 | 20.00 | 0.982 | 0.910 | 0.877 | 22.00 | 0.984 | 0.920 | 0.887 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |  |
| Load Current [A] | Power Factor       |  |  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
|                  | Input Volt. 100[V] | Input Volt. 200[V]   | Input Volt. 230[V]                             |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 0.00             | 0.277              | 0.116  | 0.106  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 4.00             | 0.885              | 0.649  | 0.596  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 8.00             | 0.945              | 0.778  | 0.722  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 12.00            | 0.966              | 0.846  | 0.797  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 16.00            | 0.976              | 0.888  | 0.845  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 20.00            | 0.982              | 0.910  | 0.877  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| 22.00            | 0.984              | 0.920  | 0.887  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| --               | -                  | -  | -  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| --               | -                  | -  | -  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| --               | -                  | -  | -  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |
| --               | -                  | -  | -  |              |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |  |



|        |  |                |  |
|--------|--|----------------|--|
| Model  |  | PDA100F-5      | Temperature 25°C<br>Testing Circuitry Figure A |
| Item   |  | Inrush Current |  |
| Object |  | _____          |  |





|        |                 |  |
|--------|-----------------|--|
| COSEL  |                 | Temperature 25°C<br>Testing Circuitry Figure C |
| Model  | PDA100F-5       |  |
| Item   | Leakage Current |  |
| Object | _____           |  |

## 1.Results

[mA]

| Standards  | Testing Circuitry | Measuring Method | Input Volt. |         |         | Note      |
|------------|-------------------|------------------|-------------|---------|---------|-----------|
|            |                   |                  | 100 [V]     | 230 [V] | 240 [V] |           |
| DEN-AN     | Figure C-1        | Both phases      | 0.14        | 0.37    | 0.38    | Operation |
|            |                   | One of phases    | 0.28        | 0.70    | 0.73    | Stand by  |
| IEC62368-1 | Figure C-2        | Both phases      | 0.14        | 0.36    | 0.37    | Operation |
|            |                   | One of phases    | 0.27        | 0.69    | 0.72    | Stand by  |
|            | Figure C-3        | Both phases      | 0.14        | 0.35    | 0.37    | Operation |
|            |                   | One of phases    | 0.27        | 0.67    | 0.71    | Stand by  |

The value for "One of phases" is the reference value only.

## 2.Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

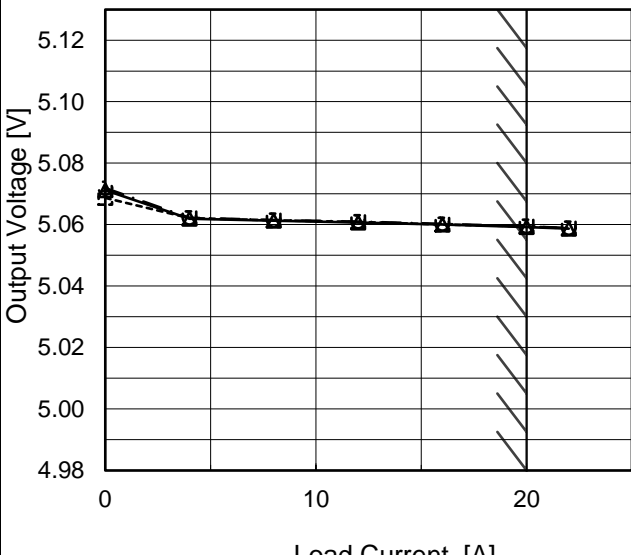
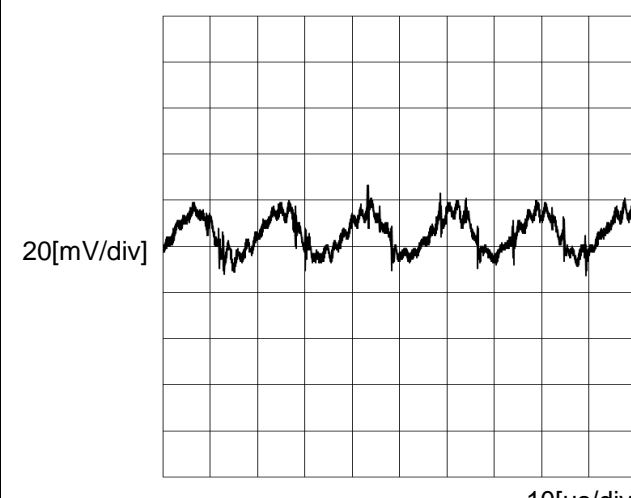


| Model  |                    | PDA100F-5   | Temperature 25°C<br>Testing Circuitry Figure A |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
|--|--------------------|---|--|-------------------|--------------------|--|----------|-----------|----|-------|-------|----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|----|---|---|
| Item   |                    | Line Regulation   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| Object   |                    | +5V20A  |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| 1.Graph  |                    | 2.Values  |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| <div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <div><div>Output Voltage [V]</div><div>5.12</div><div>5.10</div><div>5.08</div><div>5.06</div><div>5.04</div><div>5.02</div><div>5.00</div><div>4.98</div></div> <div><div>Input Voltage [V]</div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div></div> |                    | <table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>85</td><td>5.060</td><td>5.059</td></tr><tr><td>90</td><td>5.060</td><td>5.059</td></tr><tr><td>100</td><td>5.060</td><td>5.059</td></tr><tr><td>120</td><td>5.060</td><td>5.059</td></tr><tr><td>200</td><td>5.060</td><td>5.059</td></tr><tr><td>230</td><td>5.060</td><td>5.060</td></tr><tr><td>264</td><td>5.060</td><td>5.060</td></tr><tr><td>280</td><td>5.060</td><td>5.060</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table> |  | Input Voltage [V] | Output Voltage [V] |  | Load 50% | Load 100% | 85 | 5.060 | 5.059 | 90 | 5.060 | 5.059 | 100 | 5.060 | 5.059 | 120 | 5.060 | 5.059 | 200 | 5.060 | 5.059 | 230 | 5.060 | 5.060 | 264 | 5.060 | 5.060 | 280 | 5.060 | 5.060 | -- | - | - |
| Input Voltage [V]  | Output Voltage [V] |   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
|  | Load 50%           | Load 100%   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| 85   | 5.060              | 5.059   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| 90   | 5.060              | 5.059   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| 100  | 5.060              | 5.059   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| 120  | 5.060              | 5.059   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| 200  | 5.060              | 5.059   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| 230  | 5.060              | 5.060   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| 264  | 5.060              | 5.060   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| 280  | 5.060              | 5.060   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| --   | -                  | -   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |
| Note: Slanted line shows the range of the rated input voltage.   |                    |   |  |                   |                    |  |          |           |    |       |       |    |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |     |       |       |    |   |   |

Note: Slanted line shows the range of the rated input voltage.



**COSEL**

| Model   | PDA100F-5          | Temperature  | 25°C               |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|--------------------|--|--------------------|------------------|--------------------|--|--|--------------------|--------------------|--------------------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Item  | Load Regulation    | Testing Circuitry  | Figure A           |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Object  | +5V20A             |  |                    |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1.Graph   |                    | 2.Values   |                    |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>230V</div></div></div>  <p>Note: Slanted line shows the range of the rated load current.</p> |                    | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>5.071</td><td>5.069</td><td>5.072</td></tr><tr><td>4.00</td><td>5.062</td><td>5.062</td><td>5.062</td></tr><tr><td>8.00</td><td>5.061</td><td>5.061</td><td>5.062</td></tr><tr><td>12.00</td><td>5.061</td><td>5.061</td><td>5.061</td></tr><tr><td>16.00</td><td>5.060</td><td>5.060</td><td>5.060</td></tr><tr><td>20.00</td><td>5.059</td><td>5.059</td><td>5.059</td></tr><tr><td>22.00</td><td>5.059</td><td>5.059</td><td>5.059</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td></tr></table> |                    | Load Current [A] | Output Voltage [V] |  |  | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | 5.071 | 5.069 | 5.072 | 4.00 | 5.062 | 5.062 | 5.062 | 8.00 | 5.061 | 5.061 | 5.062 | 12.00 | 5.061 | 5.061 | 5.061 | 16.00 | 5.060 | 5.060 | 5.060 | 20.00 | 5.059 | 5.059 | 5.059 | 22.00 | 5.059 | 5.059 | 5.059 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Load Current [A]  | Output Voltage [V] |  |                    |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|   | Input Volt. 100[V] | Input Volt. 200[V]   | Input Volt. 230[V] |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0.00  | 5.071              | 5.069  | 5.072              |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 4.00  | 5.062              | 5.062  | 5.062              |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 8.00  | 5.061              | 5.061  | 5.062              |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 12.00   | 5.061              | 5.061  | 5.061              |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 16.00   | 5.060              | 5.060  | 5.060              |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 20.00   | 5.059              | 5.059  | 5.059              |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 22.00   | 5.059              | 5.059  | 5.059              |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| --  | --                 | --   | --                 |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| --  | --                 | --   | --                 |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| --  | --                 | --   | --                 |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| --  | --                 | --   | --                 |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Item  | Ripple-Noise       | Temperature  | 25°C               |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Object  | +5V20A             | Testing Circuitry  | Figure B           |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1.Graph   |                    |  |                    |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <div><div>Input Voltage</div><div>230V</div></div> <div><div>Load</div><div>100%</div></div>   |                    |  |                    |                  |                    |  |  |                    |                    |                    |      |       |       |       |      |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

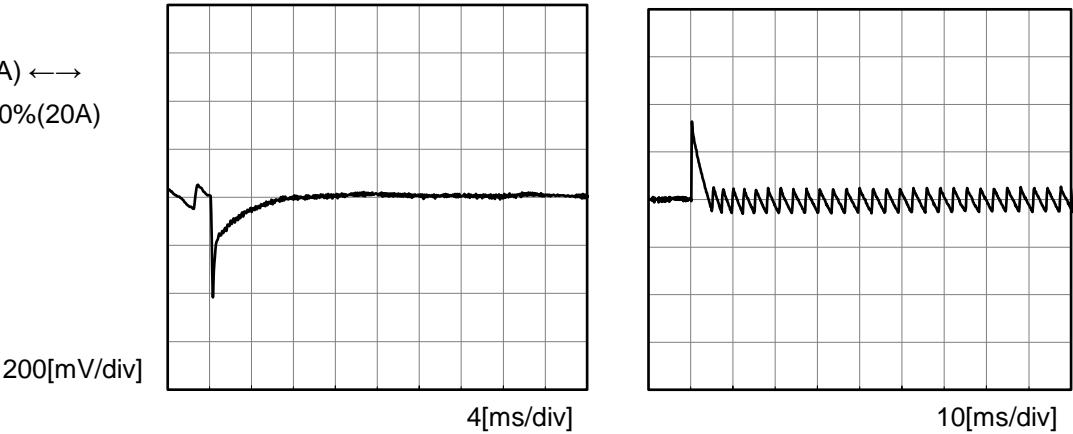


|        |  |                       |  |
|--------|--|-----------------------|--|
| Model  |  | PDA100F-5             | Temperature 25°C<br>Testing Circuitry Figure A |
| Item   |  | Dynamic Load Response |  |
| Object |  | +5V20A                |  |

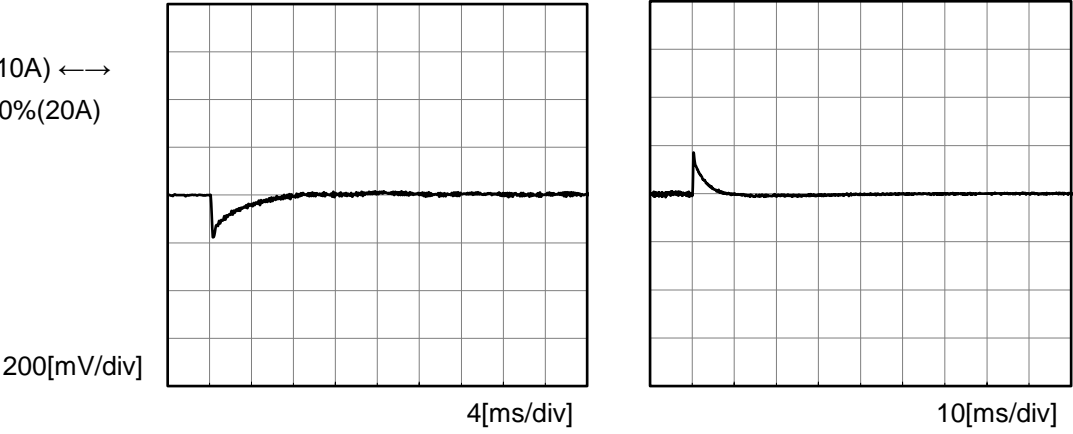
Input Volt. 230 V                      Response. t1=t2=50μs. Typ  
Cycle 1000 ms



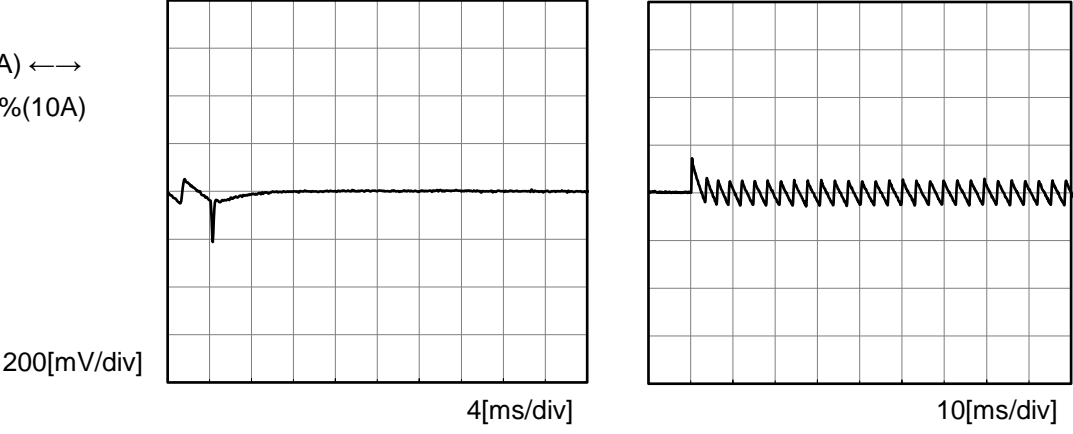
Load 0%(0A) ↔  
Load 100%(20A)



Load 50%(10A) ↔  
Load 100%(20A)



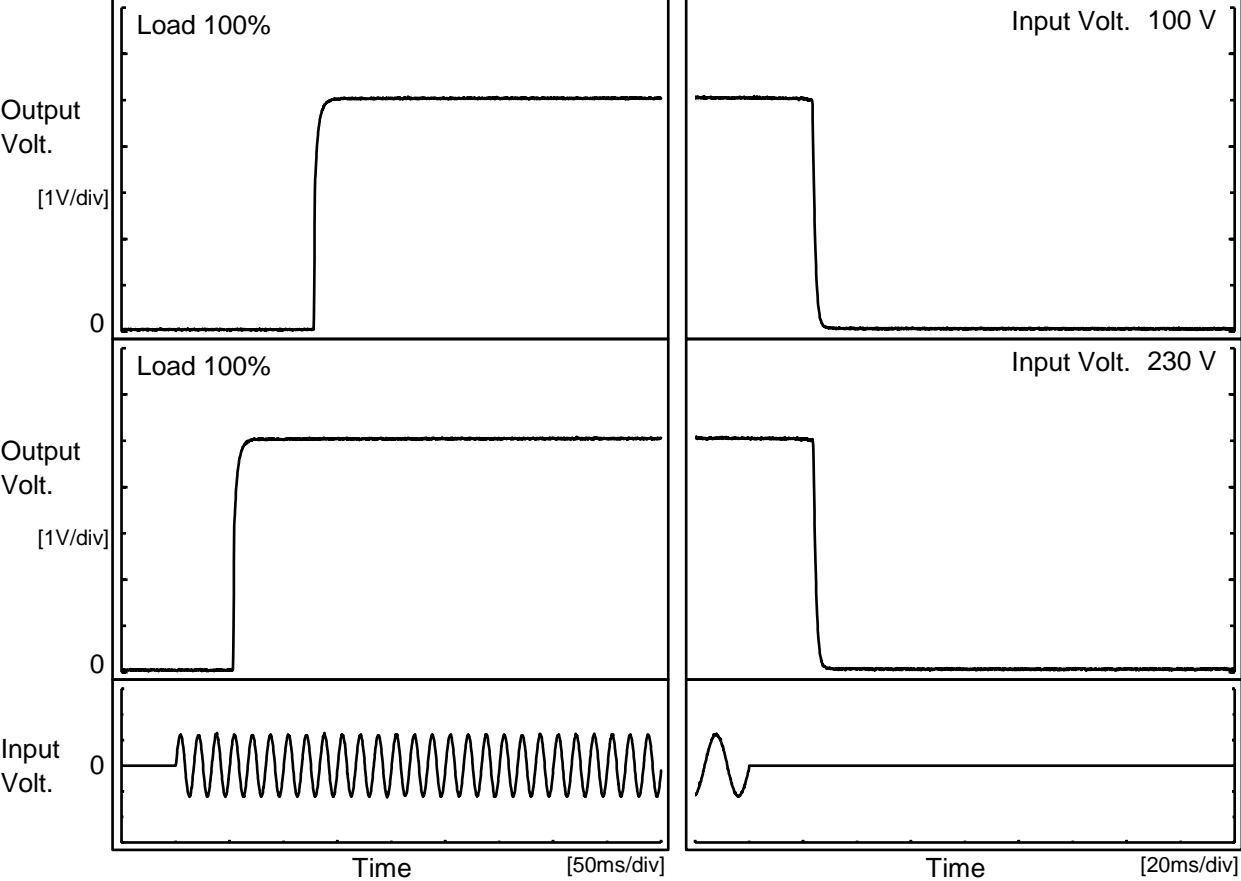
Load 0%(0A) ↔  
Load 50%(10A)





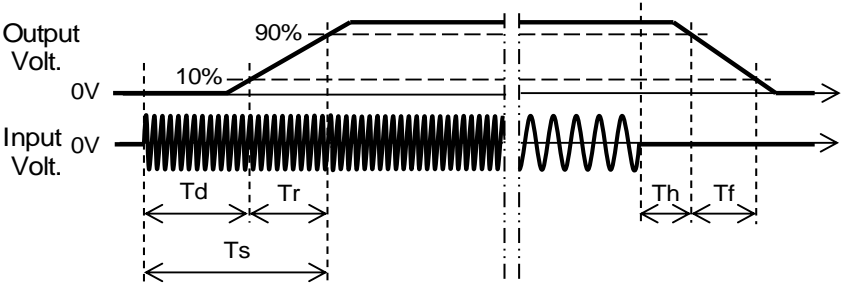
|        |  |                    |  |
|--------|--|--------------------|--|
| Model  |  | PDA100F-5          | Temperature 25°C<br>Testing Circuitry Figure A |
| Item   |  | Rise and Fall Time |  |
| Object |  | +5V20A             |  |

1.Graph



2.Values

|             |      | [ms]  |     |       |      |     |
|-------------|------|-------|-----|-------|------|-----|
| Input Volt. | Time | Td    | Tr  | Ts    | Th   | Tf  |
| 100 V       |      | 128.5 | 5.3 | 133.8 | 23.6 | 2.0 |
| 230 V       |      | 53.8  | 5.3 | 59.1  | 23.9 | 2.0 |



| Model  | PDA100F-5         |   |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
|--|-------------------|---|-------------------|-------------------|--|----------|-----------|----|----|----|----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|----|---|---|
| Item   | Hold-Up Time      | Temperature      25°C<br>Testing Circuitry   Figure A   |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| Object   | +5V20A            |   |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| <p>1.Graph</p> <div style="text-align: right; margin-right: 10%;">       ---□--- Load 50%<br/>       —△— Load 100%     </div>  |                   | <p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Hold-Up Time [ms]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>85</td><td>46</td><td>23</td></tr> <tr><td>90</td><td>46</td><td>23</td></tr> <tr><td>100</td><td>47</td><td>24</td></tr> <tr><td>120</td><td>47</td><td>24</td></tr> <tr><td>200</td><td>48</td><td>24</td></tr> <tr><td>230</td><td>48</td><td>24</td></tr> <tr><td>264</td><td>49</td><td>24</td></tr> <tr><td>280</td><td>50</td><td>25</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table> | Input Voltage [V] | Hold-Up Time [ms] |  | Load 50% | Load 100% | 85 | 46 | 23 | 90 | 46 | 23 | 100 | 47 | 24 | 120 | 47 | 24 | 200 | 48 | 24 | 230 | 48 | 24 | 264 | 49 | 24 | 280 | 50 | 25 | -- | - | - |
| Input Voltage [V]  | Hold-Up Time [ms] |   |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
|  | Load 50%          | Load 100%   |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| 85   | 46                | 23  |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| 90   | 46                | 23  |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| 100  | 47                | 24  |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| 120  | 47                | 24  |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| 200  | 48                | 24  |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| 230  | 48                | 24  |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| 264  | 49                | 24  |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| 280  | 50                | 25  |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| --   | -                 | -   |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
| <p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.<br/>Note: Slanted line shows the range of the rated input voltage.</p> |                   |   |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |
|  |                   |   |                   |                   |  |          |           |    |    |    |    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |    |   |   |

| Model  |                    | PDA100F-5   |                    |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
|--|--------------------|---|--------------------|------------------|-----------|--|--|--------------------|--------------------|--------------------|------|---|---|---|------|----|-----|-----|------|----|----|----|-------|----|----|----|-------|----|----|----|-------|----|----|----|-------|----|----|----|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item   |                    | Instantaneous Interruption Compensation   |                    |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| Object   |                    | +5V20A  |                    |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 1.Graph  |                    | 2.Values  |                    |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| <div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>-·-○-·-</div><div>Input Volt. 230V</div></div></div> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p> |                    | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4.00</td><td>31</td><td>112</td><td>114</td></tr><tr><td>8.00</td><td>31</td><td>41</td><td>41</td></tr><tr><td>12.00</td><td>29</td><td>38</td><td>38</td></tr><tr><td>16.00</td><td>26</td><td>28</td><td>29</td></tr><tr><td>20.00</td><td>22</td><td>22</td><td>22</td></tr><tr><td>22.00</td><td>20</td><td>20</td><td>20</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> |                    | Load Current [A] | Time [ms] |  |  | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | - | - | - | 4.00 | 31 | 112 | 114 | 8.00 | 31 | 41 | 41 | 12.00 | 29 | 38 | 38 | 16.00 | 26 | 28 | 29 | 20.00 | 22 | 22 | 22 | 22.00 | 20 | 20 | 20 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A]   | Time [ms]          |   |                    |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
|  | Input Volt. 100[V] | Input Volt. 200[V]  | Input Volt. 230[V] |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 0.00   | -                  | -   | -                  |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 4.00   | 31                 | 112   | 114                |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 8.00   | 31                 | 41  | 41                 |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 12.00  | 29                 | 38  | 38                 |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 16.00  | 26                 | 28  | 29                 |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 20.00  | 22                 | 22  | 22                 |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| 22.00  | 20                 | 20  | 20                 |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                  | -   | -                  |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                  | -   | -                  |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                  | -   | -                  |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |
| --   | -                  | -   | -                  |                  |           |  |  |                    |                    |                    |      |   |   |   |      |    |     |     |      |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |       |    |    |    |    |   |   |   |    |   |   |   |    |   |   |   |    |   |   |   |

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BC-12015

| Model  |                    | PDA100F-5              | Temperature   |  | 25°C     |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
|--|--------------------|------------------------|---|--|----------|--------------------|------------------|--|--------------------|--------------------|------|-------|-------|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|
| Item   |                    | Overcurrent Protection | Testing Circuitry   |  | Figure A |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| Object   |                    | +5V20A                 |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 1.Graph  |                    |                        | 2.Values  |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| <div><div><div></div><div>Input Volt. 100V</div></div><div><div></div><div>Input Volt. 230V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p> |                    |                        | <table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="2">Load Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>5.00</td><td>25.47</td><td>25.49</td></tr><tr><td>4.75</td><td>-</td><td>-</td></tr><tr><td>4.50</td><td>-</td><td>-</td></tr><tr><td>4.00</td><td>-</td><td>-</td></tr><tr><td>3.50</td><td>-</td><td>-</td></tr><tr><td>3.00</td><td>-</td><td>-</td></tr><tr><td>2.50</td><td>-</td><td>-</td></tr><tr><td>2.00</td><td>-</td><td>-</td></tr><tr><td>1.50</td><td>-</td><td>-</td></tr><tr><td>1.00</td><td>-</td><td>-</td></tr><tr><td>0.50</td><td>-</td><td>-</td></tr><tr><td>0.00</td><td>-</td><td>-</td></tr></table> |  |          | Output Voltage [V] | Load Current [A] |  | Input Volt. 100[V] | Input Volt. 230[V] | 5.00 | 25.47 | 25.49 | 4.75 | - | - | 4.50 | - | - | 4.00 | - | - | 3.50 | - | - | 3.00 | - | - | 2.50 | - | - | 2.00 | - | - | 1.50 | - | - | 1.00 | - | - | 0.50 | - | - | 0.00 | - | - |
| Output Voltage [V]   | Load Current [A]   |                        |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
|  | Input Volt. 100[V] | Input Volt. 230[V]     |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 5.00   | 25.47              | 25.49                  |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 4.75   | -                  | -                      |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 4.50   | -                  | -                      |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 4.00   | -                  | -                      |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 3.50   | -                  | -                      |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 3.00   | -                  | -                      |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 2.50   | -                  | -                      |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 2.00   | -                  | -                      |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 1.50   | -                  | -                      |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 1.00   | -                  | -                      |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 0.50   | -                  | -                      |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |
| 0.00   | -                  | -                      |   |  |          |                    |                  |  |                    |                    |      |       |       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |

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|                         |  |                               |                  |
|-------------------------|--|-------------------------------|------------------|
|                         |  |                               |                  |
| Model                   | PDA100F-5  |                               |                  |
| Item                    | Ambient Temperature Drift                          | Testing Circuitry    Figure A |                  |
| Object                  | +5V20A   |                               |                  |
| 1.Values                |  | Load 100%                     |                  |
| Ambient Temperature[°C] | Output Voltage [V]                                 |                               |                  |
|                         | Input Volt. 100V                                   | Input Volt. 200V              | Input Volt. 230V |
| -10                     | 5.056  | 5.056                         | 5.056            |
| 25                      | 5.065  | 5.065                         | 5.065            |
| 50                      | 5.061  | 5.061                         | 5.061            |
|                         |  |                               |                  |
| Item                    | Minimum Input Voltage for Regulated Output Voltage | Testing Circuitry    Figure A |                  |
| Object                  | +5V20A   |                               |                  |
| 1.Values                |  |                               |                  |
| Ambient Temperature[°C] | Input Voltage [V]                                  |                               |                  |
|                         | Load 50%   | Load 100%                     |                  |
| -10                     | 43   | 58                            |                  |
| 25                      | 43   | 57                            |                  |
| 50                      | 41   | 53                            |                  |
|                         |  |                               |                  |
| Item                    | Overvoltage Protection                             | Testing Circuitry    Figure A |                  |
| Object                  | +5V20A   |                               |                  |
| 1.Values                |  | Load 0%                       |                  |
| Ambient Temperature[°C] | Operating Point [V]                                |                               |                  |
|                         | Input Volt. 100V                                   | Input Volt. 230V              |                  |
| -20                     | 6.76   | 6.76                          |                  |
| 25                      | 6.70   | 6.70                          |                  |
| 50                      | 6.70   | 6.70                          |                  |

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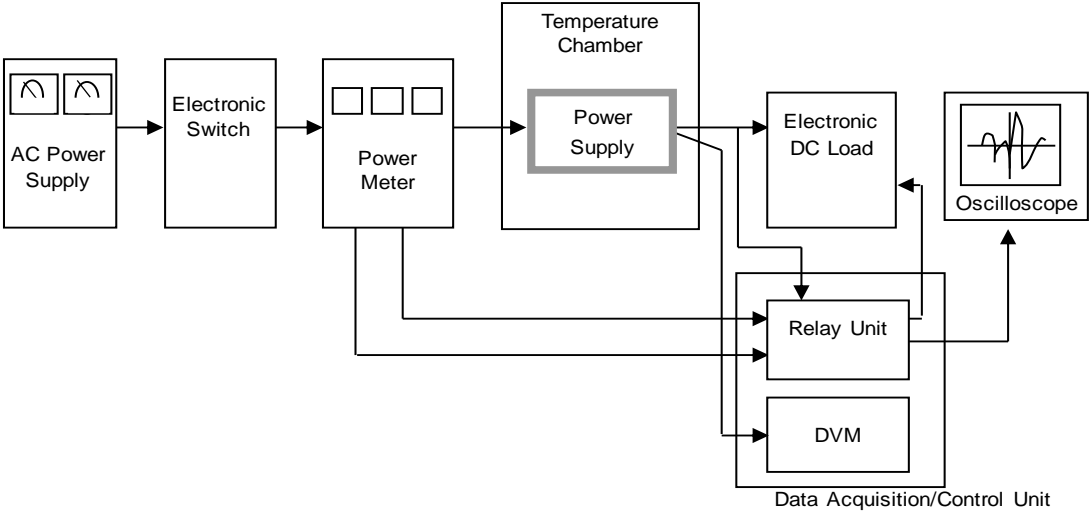


Figure A

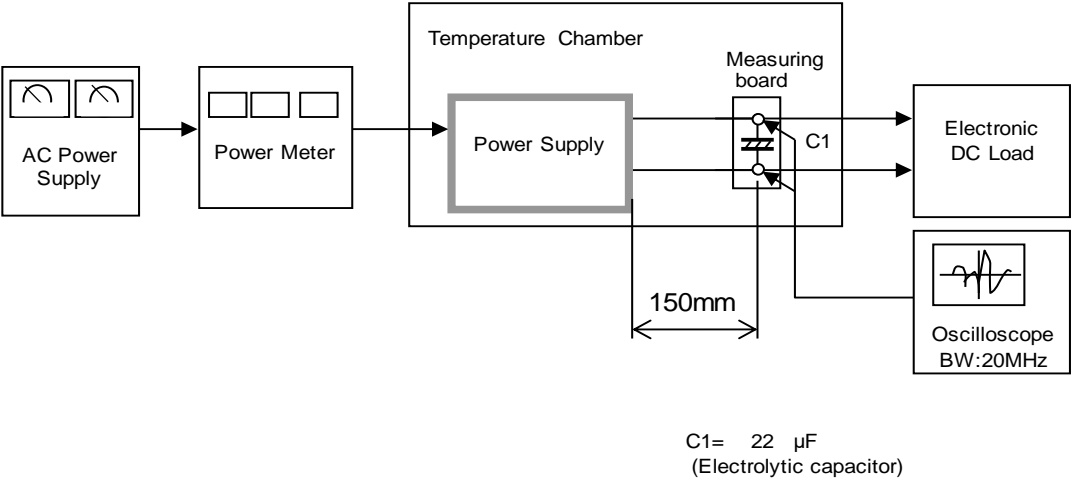


Figure B



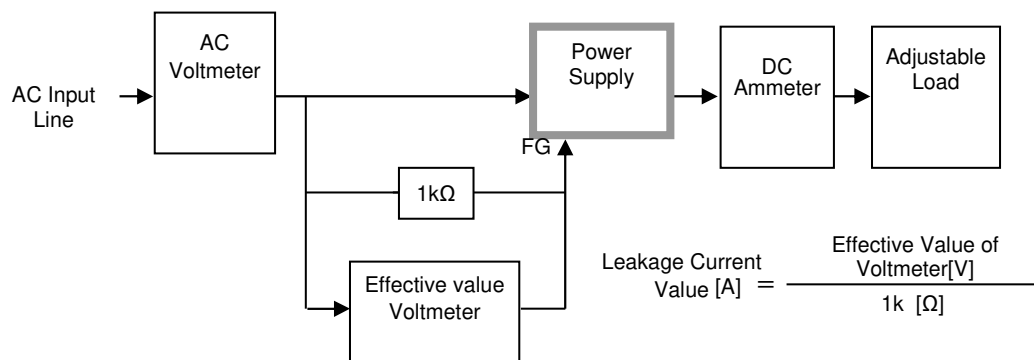


Figure C-1 (DEN-AN)

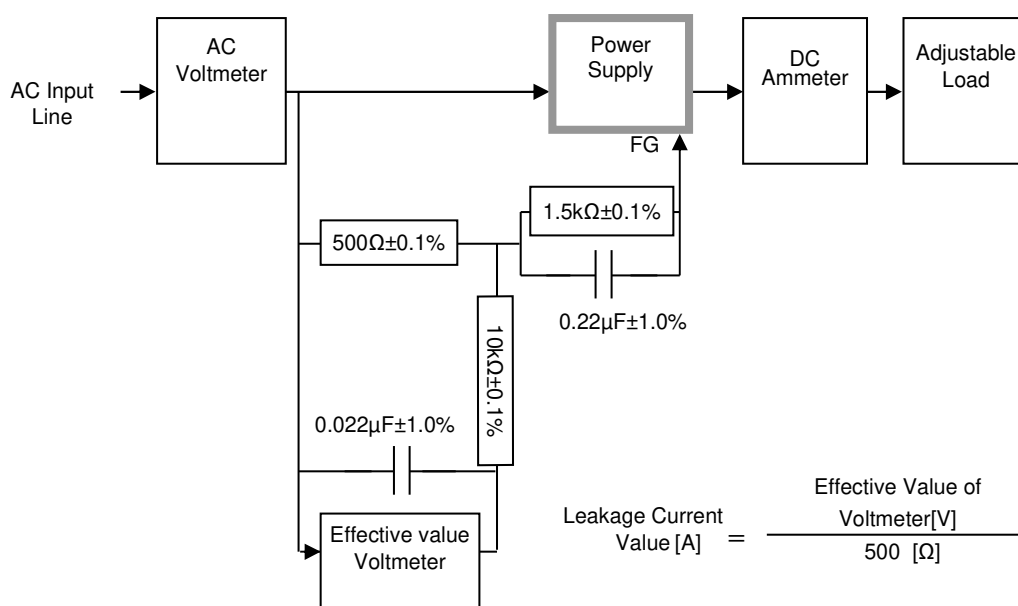


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

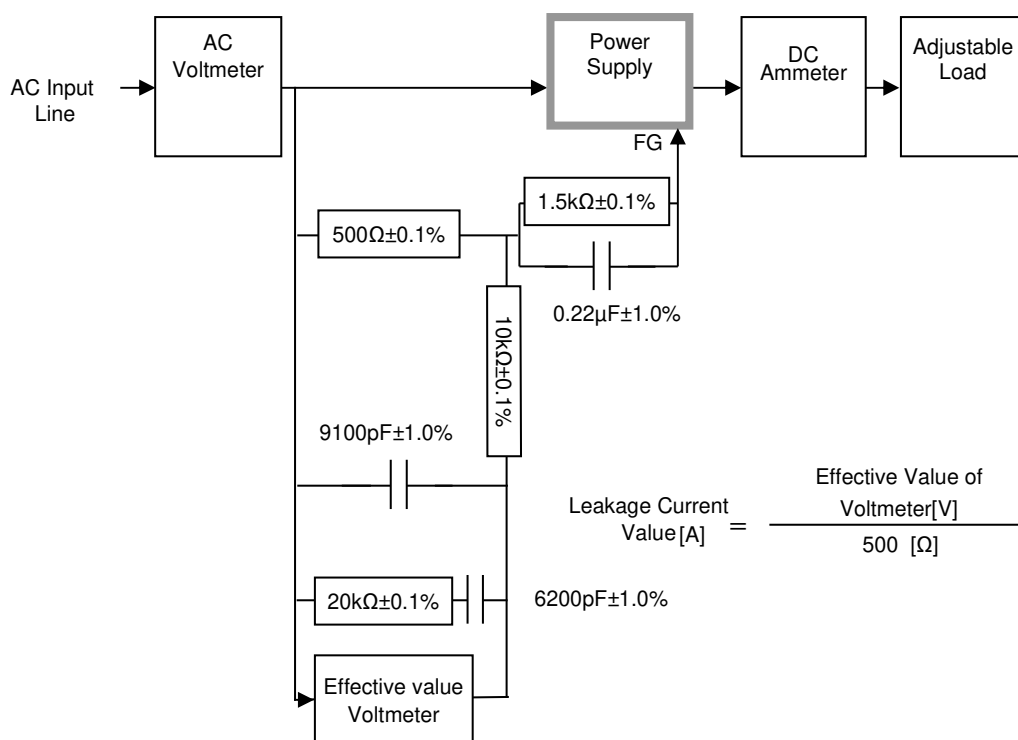


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)