

TEST DATA OF LHP300F-36-Y

Regulated DC Power Supply
April 5, 2021

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(Final Page 15)

| Model | | LHP300F-36-Y | | Temperature 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|---------------------------------|--------------------|---|--|------------------|-------------------|--|--|--------------------|--------------------|--------------------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|----|---|---|---|----|---|---|---|
| Item | | Input Current (by Load Current) | | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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> <div><div>Input Current [A]</div><div>Load Current [A]</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">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>0.093</td><td>0.110</td><td>0.120</td></tr><tr><td>1.20</td><td>0.549</td><td>0.337</td><td>0.323</td></tr><tr><td>2.40</td><td>1.045</td><td>0.556</td><td>0.507</td></tr><tr><td>3.60</td><td>1.413</td><td>0.782</td><td>0.697</td></tr><tr><td>4.80</td><td>1.871</td><td>1.012</td><td>0.894</td></tr><tr><td>6.00</td><td>2.326</td><td>1.169</td><td>1.093</td></tr><tr><td>7.20</td><td>2.787</td><td>1.391</td><td>1.296</td></tr><tr><td>8.40</td><td>3.250</td><td>1.615</td><td>1.413</td></tr><tr><td>9.24</td><td>3.580</td><td>1.772</td><td>1.549</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 | 0.093 | 0.110 | 0.120 | 1.20 | 0.549 | 0.337 | 0.323 | 2.40 | 1.045 | 0.556 | 0.507 | 3.60 | 1.413 | 0.782 | 0.697 | 4.80 | 1.871 | 1.012 | 0.894 | 6.00 | 2.326 | 1.169 | 1.093 | 7.20 | 2.787 | 1.391 | 1.296 | 8.40 | 3.250 | 1.615 | 1.413 | 9.24 | 3.580 | 1.772 | 1.549 | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 0.093 | 0.110 | 0.120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 0.549 | 0.337 | 0.323 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.40 | 1.045 | 0.556 | 0.507 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.60 | 1.413 | 0.782 | 0.697 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.80 | 1.871 | 1.012 | 0.894 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 2.326 | 1.169 | 1.093 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.20 | 2.787 | 1.391 | 1.296 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.40 | 3.250 | 1.615 | 1.413 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.24 | 3.580 | 1.772 | 1.549 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

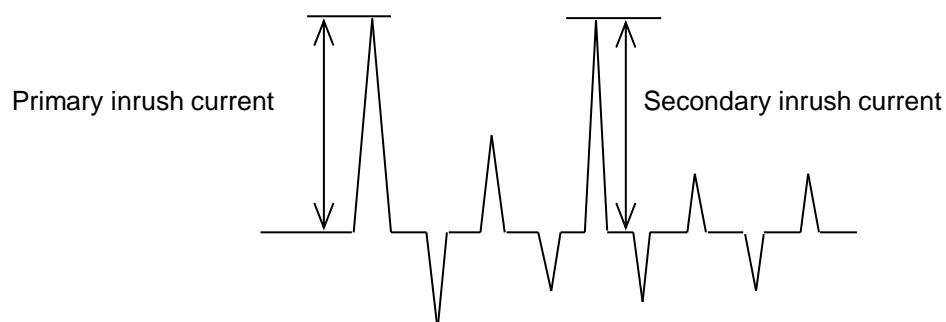
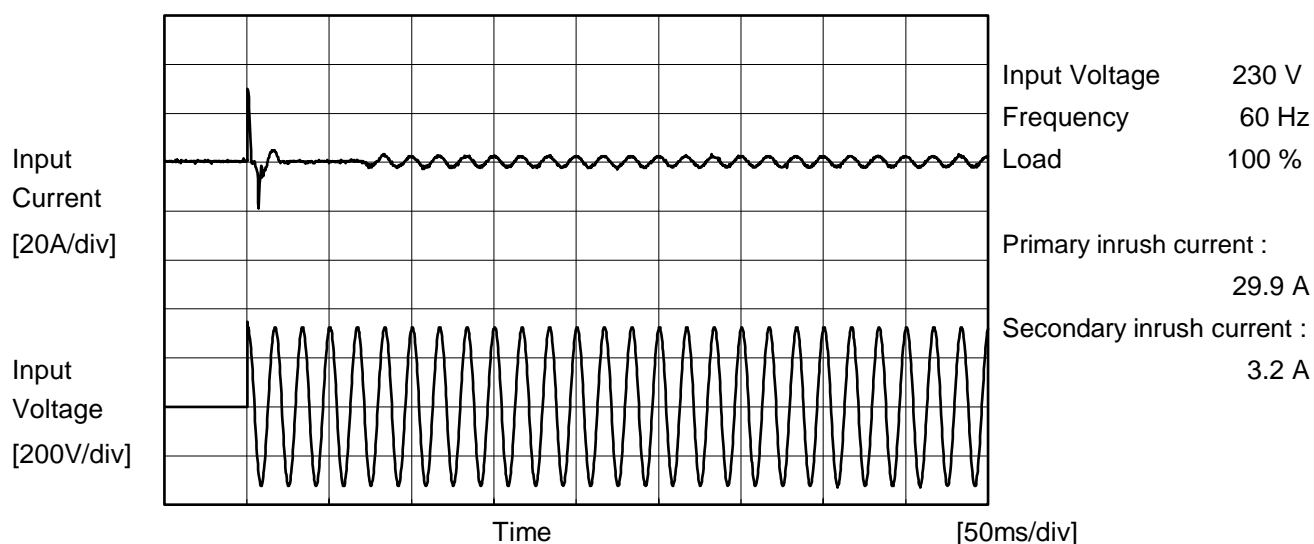
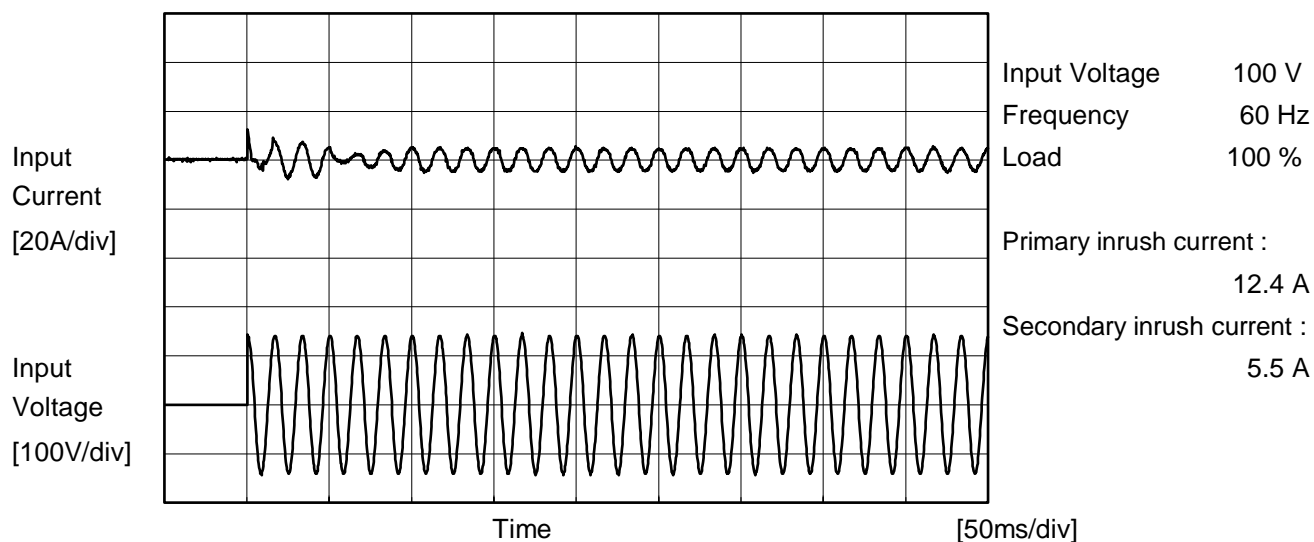


| Model | | LHP300F-36-Y | | Temperature 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|----------|---|----------|----------------------------|----------|----------|----------|------|---|---|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|---|---|---|----|---|---|---|----------|--|
| Item | | Efficiency (by Load Current) | | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <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>1.20</td><td>87.1</td><td>88.9</td><td>89.1</td></tr><tr><td>2.40</td><td>91.2</td><td>92.9</td><td>93.1</td></tr><tr><td>3.60</td><td>92.8</td><td>94.2</td><td>94.4</td></tr><tr><td>4.80</td><td>93.2</td><td>94.6</td><td>94.9</td></tr><tr><td>6.00</td><td>93.4</td><td>94.9</td><td>95.1</td></tr><tr><td>7.20</td><td>93.5</td><td>95.0</td><td>95.2</td></tr><tr><td>8.40</td><td>93.4</td><td>95.0</td><td>95.3</td></tr><tr><td>9.24</td><td>93.3</td><td>95.0</td><td>95.1</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></tbody></table> | | Load Current [A] | 100V [%] | 200V [%] | 230V [%] | 0.00 | - | - | - | 1.20 | 87.1 | 88.9 | 89.1 | 2.40 | 91.2 | 92.9 | 93.1 | 3.60 | 92.8 | 94.2 | 94.4 | 4.80 | 93.2 | 94.6 | 94.9 | 6.00 | 93.4 | 94.9 | 95.1 | 7.20 | 93.5 | 95.0 | 95.2 | 8.40 | 93.4 | 95.0 | 95.3 | 9.24 | 93.3 | 95.0 | 95.1 | -- | - | - | - | -- | - | - | - | 2.Values | |
| Load Current [A] | 100V [%] | 200V [%] | 230V [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 87.1 | 88.9 | 89.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.40 | 91.2 | 92.9 | 93.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.60 | 92.8 | 94.2 | 94.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.80 | 93.2 | 94.6 | 94.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 93.4 | 94.9 | 95.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.20 | 93.5 | 95.0 | 95.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.40 | 93.4 | 95.0 | 95.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.24 | 93.3 | 95.0 | 95.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Model | | LHP300F-36-Y | | Temperature 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|--------------------------------|--------------------|--|--|------------------|--------------|--|--|--------------------|--------------------|--------------------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|----|---|---|---|----|---|---|---|
| Item | | Power Factor (by Load Current) | | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△— Input Volt. 100V</div><div>---□--- Input Volt. 200V</div><div>-·-○-·- Input Volt. 230V</div></div><div>Power Factor</div><div>Load Current [A]</div></div> <div>Note: Slanted line shows the range of the rated load current.</div> | | | | <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>0.446</td><td>0.134</td><td>0.093</td></tr><tr><td>1.20</td><td>0.905</td><td>0.722</td><td>0.654</td></tr><tr><td>2.40</td><td>0.917</td><td>0.844</td><td>0.803</td></tr><tr><td>3.60</td><td>0.995</td><td>0.884</td><td>0.860</td></tr><tr><td>4.80</td><td>0.996</td><td>0.906</td><td>0.889</td></tr><tr><td>6.00</td><td>0.998</td><td>0.976</td><td>0.905</td></tr><tr><td>7.20</td><td>0.998</td><td>0.983</td><td>0.915</td></tr><tr><td>8.40</td><td>0.998</td><td>0.987</td><td>0.978</td></tr><tr><td>9.24</td><td>0.999</td><td>0.989</td><td>0.983</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 | 0.446 | 0.134 | 0.093 | 1.20 | 0.905 | 0.722 | 0.654 | 2.40 | 0.917 | 0.844 | 0.803 | 3.60 | 0.995 | 0.884 | 0.860 | 4.80 | 0.996 | 0.906 | 0.889 | 6.00 | 0.998 | 0.976 | 0.905 | 7.20 | 0.998 | 0.983 | 0.915 | 8.40 | 0.998 | 0.987 | 0.978 | 9.24 | 0.999 | 0.989 | 0.983 | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Power Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 0.446 | 0.134 | 0.093 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 0.905 | 0.722 | 0.654 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.40 | 0.917 | 0.844 | 0.803 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.60 | 0.995 | 0.884 | 0.860 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.80 | 0.996 | 0.906 | 0.889 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 0.998 | 0.976 | 0.905 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.20 | 0.998 | 0.983 | 0.915 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.40 | 0.998 | 0.987 | 0.978 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.24 | 0.999 | 0.989 | 0.983 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | | | |
|--------|----------------|--|--|
| | | | |
| Model | LHP300F-36-Y | Temperature 25°C Testing Circuitry Figure A | |
| Item | Inrush Current | | |
| Object | | | |





| | | |
|--------|-----------------|--|
| | | Temperature 25°C Testing Circuitry Figure C |
| Model | LHP300F-36-Y | |
| Item | Leakage Current | |
| Object | _____ | |

1.Results

| Standards | Testing Circuitry | Measuring Method | Input Volt. | | | Note |
|------------|-------------------|------------------|-------------|---------|---------|-----------|
| | | | 100 [V] | 230 [V] | 240 [V] | |
| DEN-AN | Figure C-1 | Both phases | 0.14 | 0.35 | 0.37 | Operation |
| | | One of phases | 0.27 | 0.65 | 0.69 | Stand by |
| IEC62368-1 | Figure C-2 | Both phases | 0.14 | 0.35 | 0.36 | Operation |
| | | One of phases | 0.27 | 0.65 | 0.68 | Stand by |
| | Figure C-3 | Both phases | 0.14 | 0.35 | 0.37 | Operation |
| | | One of phases | 0.26 | 0.65 | 0.69 | Stand by |

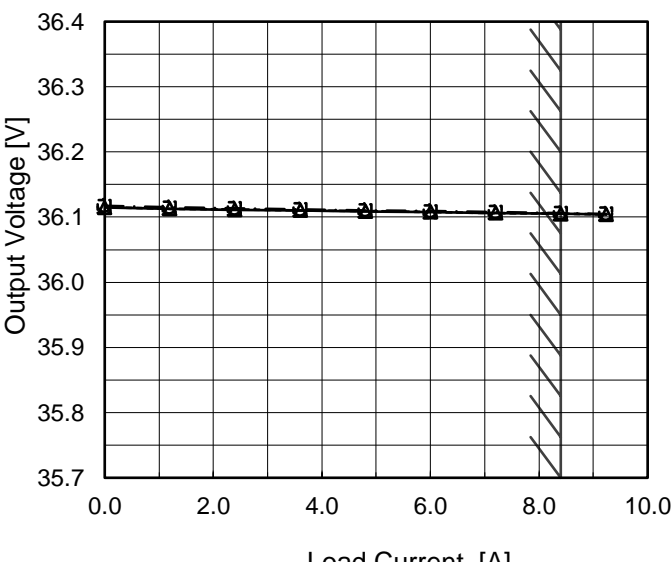
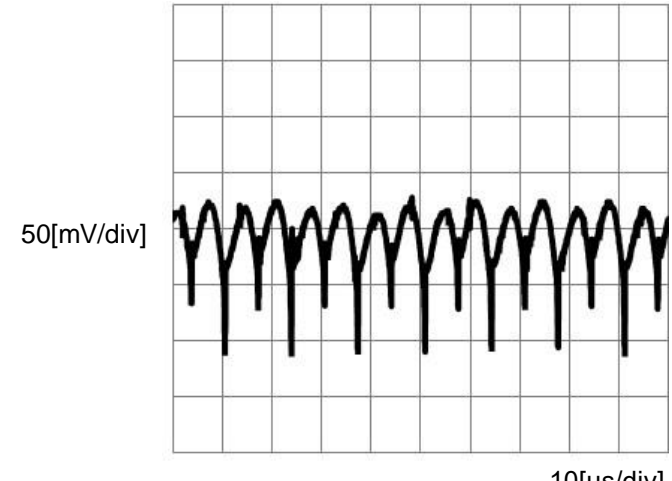
The value for "One of phases" is the reference value only.

2.Condition

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



| Model | LHP300F-36-Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------------|------------------------------|-----------------------------|------------------------------|----|--------|--------|----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|----|---|---|--|--|
| Item | Line Regulation | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +36V8.4A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div> <div><div>—</div><div>△</div><div>—</div></div> <div>Load 100%</div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>85</td><td>36.105</td><td>36.101</td></tr><tr><td>90</td><td>36.107</td><td>36.102</td></tr><tr><td>100</td><td>36.108</td><td>36.103</td></tr><tr><td>120</td><td>36.108</td><td>36.104</td></tr><tr><td>200</td><td>36.105</td><td>36.101</td></tr><tr><td>230</td><td>36.107</td><td>36.102</td></tr><tr><td>264</td><td>36.108</td><td>36.103</td></tr><tr><td>280</td><td>36.108</td><td>36.103</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p> | | Input Voltage [V] | Output Voltage [V] Load 50% | Output Voltage [V] Load 100% | 85 | 36.105 | 36.101 | 90 | 36.107 | 36.102 | 100 | 36.108 | 36.103 | 120 | 36.108 | 36.104 | 200 | 36.105 | 36.101 | 230 | 36.107 | 36.102 | 264 | 36.108 | 36.103 | 280 | 36.108 | 36.103 | -- | - | - | | |
| Input Voltage [V] | Output Voltage [V] Load 50% | Output Voltage [V] Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 36.105 | 36.101 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 36.107 | 36.102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 36.108 | 36.103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 36.108 | 36.104 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 36.105 | 36.101 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 230 | 36.107 | 36.102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 36.108 | 36.103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 36.108 | 36.103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

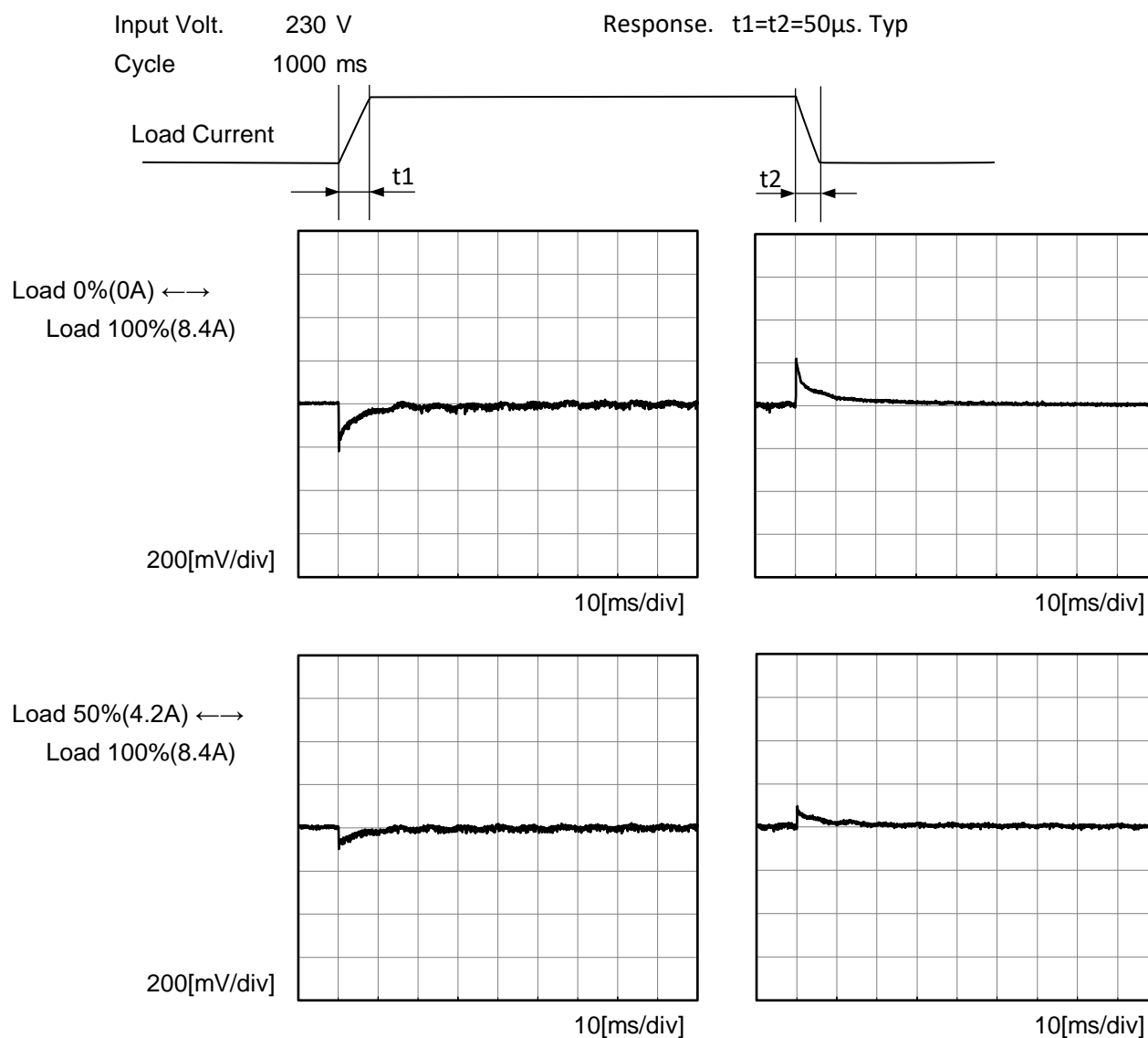
| Model | | LHP300F-36-Y | | Temperature 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--------------------|---|--------------------|----------------------------|--|------------------|--------------------|--|--|--------------------|--------------------|--------------------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|----|----|----|----|----|----|----|----|
| Item | | Load Regulation | | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +36V8.4A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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> <div></div> <div>Note: Slanted line shows the range of the rated load current.</div> | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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>36.115</td><td>36.115</td><td>36.117</td></tr><tr><td>1.20</td><td>36.113</td><td>36.113</td><td>36.115</td></tr><tr><td>2.40</td><td>36.111</td><td>36.112</td><td>36.113</td></tr><tr><td>3.60</td><td>36.110</td><td>36.110</td><td>36.112</td></tr><tr><td>4.80</td><td>36.109</td><td>36.109</td><td>36.110</td></tr><tr><td>6.00</td><td>36.108</td><td>36.108</td><td>36.109</td></tr><tr><td>7.20</td><td>36.106</td><td>36.106</td><td>36.108</td></tr><tr><td>8.40</td><td>36.105</td><td>36.105</td><td>36.106</td></tr><tr><td>9.24</td><td>36.104</td><td>36.104</td><td>36.105</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 | 36.115 | 36.115 | 36.117 | 1.20 | 36.113 | 36.113 | 36.115 | 2.40 | 36.111 | 36.112 | 36.113 | 3.60 | 36.110 | 36.110 | 36.112 | 4.80 | 36.109 | 36.109 | 36.110 | 6.00 | 36.108 | 36.108 | 36.109 | 7.20 | 36.106 | 36.106 | 36.108 | 8.40 | 36.105 | 36.105 | 36.106 | 9.24 | 36.104 | 36.104 | 36.105 | -- | -- | -- | -- | -- | -- | -- | -- |
| Load Current [A] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 36.115 | 36.115 | 36.117 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 36.113 | 36.113 | 36.115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.40 | 36.111 | 36.112 | 36.113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.60 | 36.110 | 36.110 | 36.112 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.80 | 36.109 | 36.109 | 36.110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 36.108 | 36.108 | 36.109 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.20 | 36.106 | 36.106 | 36.108 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.40 | 36.105 | 36.105 | 36.106 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.24 | 36.104 | 36.104 | 36.105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | | Ripple-Noise | | Temperature 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +36V8.4A | | Testing Circuitry Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <div><div>Input Voltage 230V</div><div>Load 100%</div></div> <div></div> <div>50[mV/div]</div> <div>10[μs/div]</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

- 7 -

BC-11718

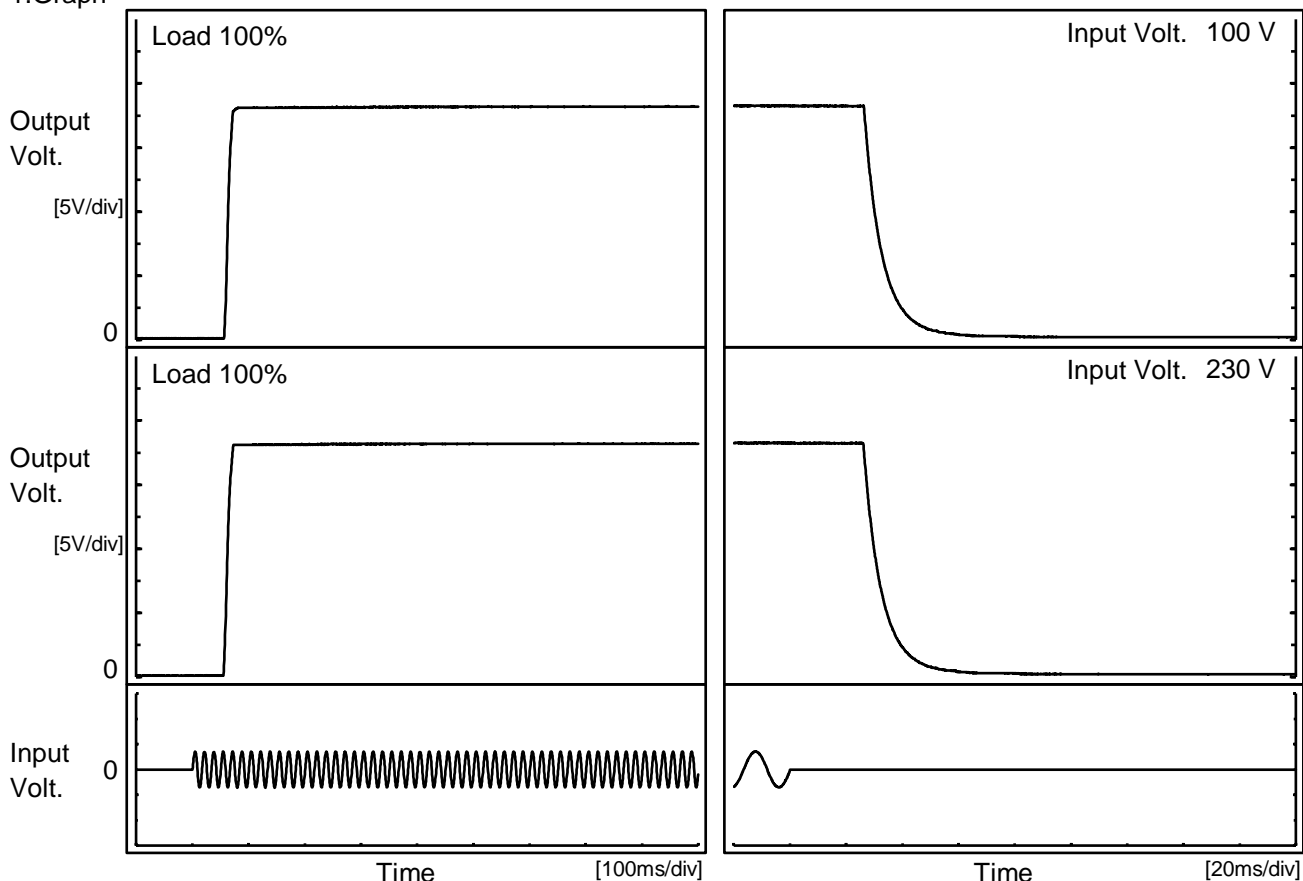


| | | | |
|--------|-----------------------|-------------------|----------|
| | | | |
| Model | LHP300F-36-Y | | |
| Item | Dynamic Load Response | Temperature | 25°C |
| Object | +36V8.4A | Testing Circuitry | Figure A |



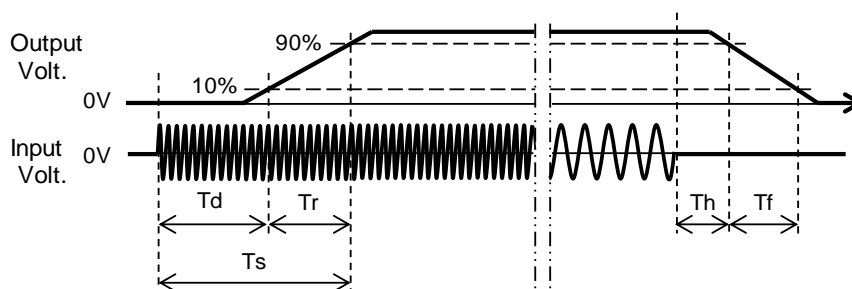
| | | | |
|--------|--------------------|-------------------|----------|
| | | | |
| Model | LHP300F-36-Y | | |
| Item | Rise and Fall Time | Temperature | 25°C |
| Object | +36V8.4A | Testing Circuitry | Figure A |

1.Graph



2.Values

| | | [ms] | | | | |
|-------------|------|------|------|------|------|------|
| Input Volt. | Time | Td | Tr | Ts | Th | Tf |
| 100 V | | 59.0 | 11.0 | 70.0 | 27.0 | 14.8 |
| 230 V | | 57.5 | 12.0 | 69.5 | 26.8 | 14.9 |



| Model | LHP300F-36-Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|--|----------|-------------------|-------------------|--|----------|-----------|----|----|----|----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|----|---|---|
| Item | Hold-Up Time | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +36V8.4A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div><div>---</div><div>△</div><div>---</div></div> <div>Load 100%</div> <div><div>Hold-Up Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div><div>Input Voltage [V]</div></div> <div><p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p><p>Note: Slanted line shows the range of the rated input voltage.</p></div> | | <table><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><tr><td>85</td><td>51</td><td>27</td></tr><tr><td>90</td><td>52</td><td>26</td></tr><tr><td>100</td><td>52</td><td>27</td></tr><tr><td>120</td><td>52</td><td>27</td></tr><tr><td>200</td><td>51</td><td>26</td></tr><tr><td>230</td><td>51</td><td>26</td></tr><tr><td>264</td><td>59</td><td>30</td></tr><tr><td>280</td><td>59</td><td>30</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table> | | Input Voltage [V] | Hold-Up Time [ms] | | Load 50% | Load 100% | 85 | 51 | 27 | 90 | 52 | 26 | 100 | 52 | 27 | 120 | 52 | 27 | 200 | 51 | 26 | 230 | 51 | 26 | 264 | 59 | 30 | 280 | 59 | 30 | -- | - | - |
| Input Voltage [V] | Hold-Up Time [ms] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 51 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 52 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 52 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | 52 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 51 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 230 | 51 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 59 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 59 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Model | LHP300F-36-Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--------------------|--------------------|--|--|--------------------|--------------------|--------------------|------|---|---|---|------|-----|-----|-----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|----|---|---|---|----|---|---|---|
| Item | Instantaneous Interruption Compensation | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +36V8.4A | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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> <div><div><div>Instantaneous Compensation Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0246810</div><div>Load Current [A]</div></div></div> <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>1.20</td><td>173</td><td>174</td><td>174</td></tr><tr><td>2.40</td><td>90</td><td>90</td><td>90</td></tr><tr><td>3.60</td><td>62</td><td>62</td><td>62</td></tr><tr><td>4.80</td><td>47</td><td>46</td><td>47</td></tr><tr><td>6.00</td><td>38</td><td>37</td><td>37</td></tr><tr><td>7.20</td><td>31</td><td>31</td><td>31</td></tr><tr><td>8.40</td><td>27</td><td>26</td><td>26</td></tr><tr><td>9.24</td><td>23</td><td>24</td><td>24</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> <div>Note: Slanted line shows the range of the rated load current.</div> | | Load Current [A] | Time [ms] | | | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | - | - | - | 1.20 | 173 | 174 | 174 | 2.40 | 90 | 90 | 90 | 3.60 | 62 | 62 | 62 | 4.80 | 47 | 46 | 47 | 6.00 | 38 | 37 | 37 | 7.20 | 31 | 31 | 31 | 8.40 | 27 | 26 | 26 | 9.24 | 23 | 24 | 24 | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Time [ms] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.20 | 173 | 174 | 174 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.40 | 90 | 90 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.60 | 62 | 62 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.80 | 47 | 46 | 47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 38 | 37 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.20 | 31 | 31 | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.40 | 27 | 26 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.24 | 23 | 24 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Model | | LHP300F-36-Y | Temperature Testing Circuitry | 25°C Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|------------------------|---|------------------|--------------------|------------------|--|--------------------|--------------------|----|-------|-------|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|
| Item | | Overcurrent Protection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +36V8.4A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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> <p>Overcurrent protection is Hiccup mode.</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>36</td><td>27.59</td><td>27.95</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table> | | Output Voltage [V] | Load Current [A] | | Input Volt. 100[V] | Input Volt. 230[V] | 36 | 27.59 | 27.95 | -- | - | - | -- | - | - | -- | - | - | -- | - | - | -- | - | - | -- | - | - | -- | - | - | -- | - | - | -- | - | - | -- | - | - | -- | - | - | -- | - | - | -- | - | - |
| Output Voltage [V] | Load Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 27.59 | 27.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| | | | |
|---|--|-------------------------------|------------------|
| COSEL | | Testing Circuitry Figure A | |
| Model | LHP300F-36-Y | | |
| Item | Ambient Temperature Drift | | |
| Object | +36V8.4A | | |
| 1.Values Load 100% | | | |
| Ambient Temperature[°C] | Output Voltage [V] | | |
| | Input Volt. 100V | Input Volt. 200V | Input Volt. 230V |
| -10 | 35.998 | 35.997 | 35.998 |
| 25 | 36.095 | 36.096 | 36.095 |
| 50 | 36.135 | 36.135 | 36.135 |
| | | | |
| Item | Minimum Input Voltage for Regulated Output Voltage | Testing Circuitry Figure A | |
| Object | +36V8.4A | | |
| 1.Values | | | |
| Ambient Temperature[°C] | Input Voltage [V] | | |
| | Load 50% | Load 100% | |
| -10 | 74 | 75 | |
| 25 | 74 | 75 | |
| 50 | 74 | 75 | |
| | | | |
| Item | Overvoltage Protection | Testing Circuitry Figure A | |
| Object | +36V8.4A | | |
| 1.Values Load 0% | | | |
| Ambient Temperature[°C] | Operating Point [V] | | |
| | Input Volt. 100V | Input Volt. 230V | |
| -10 | 44.47 | 44.36 | |
| 25 | 45.76 | 45.76 | |
| 50 | 46.76 | 46.76 | |

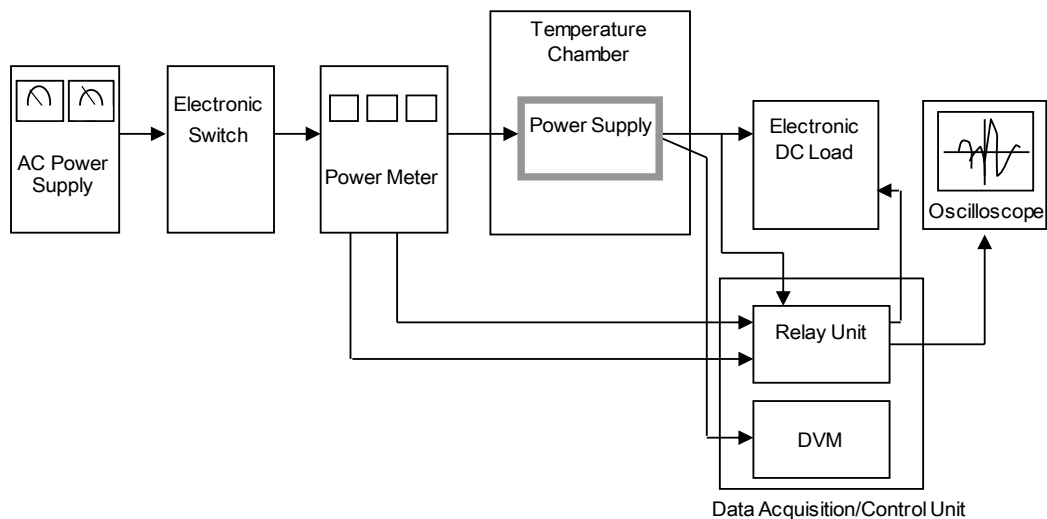


Figure A

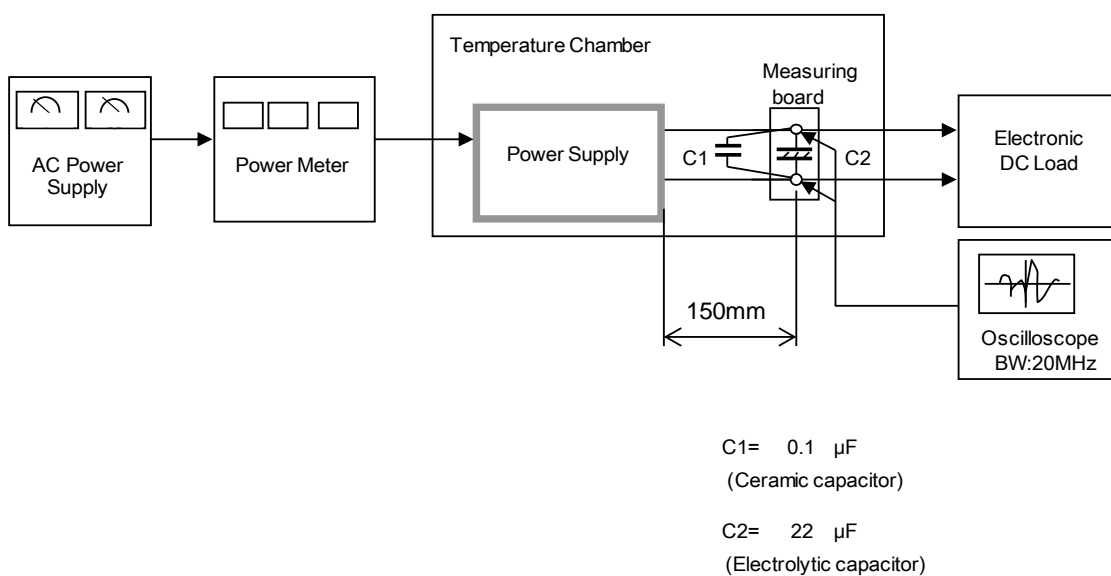


Figure B

