



TEST DATA OF LHP150F-24-Y

Regulated DC Power Supply
April 5, 2021

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Design Manager

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COSEL CO.,LTD.



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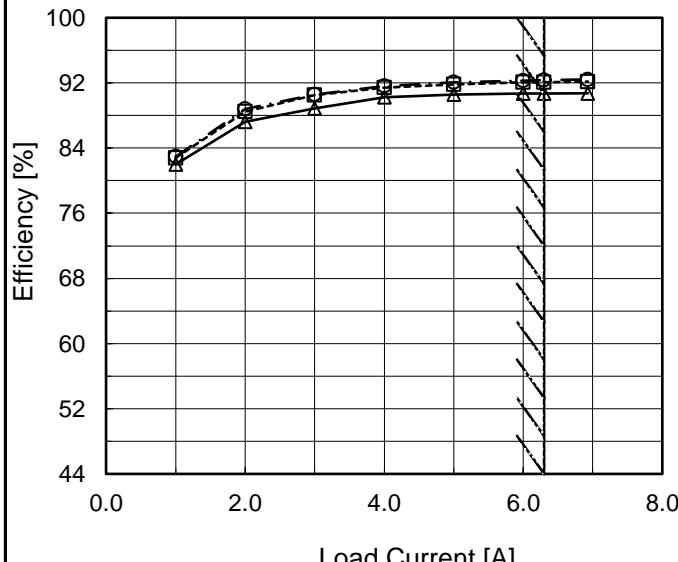
(Final Page 15)

COSEL

| Model | LHP150F-24-Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|----------------------------------|----------------------|----------------------|----------------------|-----|-------|--------------------|--------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|----|---|---|---|----|---|---|---|
| Item | Input Current (by Load Current) | Temperature Testing Circuitry | 25°C Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | <p>—△— Input Volt. 100V - - □ - - Input Volt. 200V - · ○ - - Input Volt. 230V</p> <table border="1"> <caption>Data points estimated from Figure A graph</caption> <thead> <tr> <th>Load Current [A]</th> <th>Input Volt. 100V [A]</th> <th>Input Volt. 200V [A]</th> <th>Input Volt. 230V [A]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.068</td><td>0.066</td><td>0.070</td></tr> <tr><td>1.00</td><td>0.306</td><td>0.209</td><td>0.200</td></tr> <tr><td>2.00</td><td>0.559</td><td>0.324</td><td>0.303</td></tr> <tr><td>3.00</td><td>0.816</td><td>0.440</td><td>0.403</td></tr> <tr><td>4.00</td><td>1.069</td><td>0.561</td><td>0.505</td></tr> <tr><td>5.00</td><td>1.329</td><td>0.684</td><td>0.610</td></tr> <tr><td>6.00</td><td>1.592</td><td>0.809</td><td>0.716</td></tr> <tr><td>6.30</td><td>1.671</td><td>0.847</td><td>0.749</td></tr> <tr><td>6.93</td><td>1.837</td><td>0.927</td><td>0.816</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] | Input Volt. 100V [A] | Input Volt. 200V [A] | Input Volt. 230V [A] | 0.0 | 0.068 | 0.066 | 0.070 | 1.00 | 0.306 | 0.209 | 0.200 | 2.00 | 0.559 | 0.324 | 0.303 | 3.00 | 0.816 | 0.440 | 0.403 | 4.00 | 1.069 | 0.561 | 0.505 | 5.00 | 1.329 | 0.684 | 0.610 | 6.00 | 1.592 | 0.809 | 0.716 | 6.30 | 1.671 | 0.847 | 0.749 | 6.93 | 1.837 | 0.927 | 0.816 | -- | - | - | - | -- | - | - | - | | | | | |
| Load Current [A] | Input Volt. 100V [A] | Input Volt. 200V [A] | Input Volt. 230V [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.068 | 0.066 | 0.070 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 0.306 | 0.209 | 0.200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 0.559 | 0.324 | 0.303 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 0.816 | 0.440 | 0.403 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 1.069 | 0.561 | 0.505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6.00 | 1.592 | 0.809 | 0.716 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 1.671 | 0.847 | 0.749 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.93 | 1.837 | 0.927 | 0.816 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | <table border="1"> <thead> <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> </thead> <tbody> <tr><td>0.00</td><td>0.068</td><td>0.066</td><td>0.070</td></tr> <tr><td>1.00</td><td>0.306</td><td>0.209</td><td>0.200</td></tr> <tr><td>2.00</td><td>0.559</td><td>0.324</td><td>0.303</td></tr> <tr><td>3.00</td><td>0.816</td><td>0.440</td><td>0.403</td></tr> <tr><td>4.00</td><td>1.069</td><td>0.561</td><td>0.505</td></tr> <tr><td>5.00</td><td>1.329</td><td>0.684</td><td>0.610</td></tr> <tr><td>6.00</td><td>1.592</td><td>0.809</td><td>0.716</td></tr> <tr><td>6.30</td><td>1.671</td><td>0.847</td><td>0.749</td></tr> <tr><td>6.93</td><td>1.837</td><td>0.927</td><td>0.816</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] | Input Current [A] | | | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | 0.00 | 0.068 | 0.066 | 0.070 | 1.00 | 0.306 | 0.209 | 0.200 | 2.00 | 0.559 | 0.324 | 0.303 | 3.00 | 0.816 | 0.440 | 0.403 | 4.00 | 1.069 | 0.561 | 0.505 | 5.00 | 1.329 | 0.684 | 0.610 | 6.00 | 1.592 | 0.809 | 0.716 | 6.30 | 1.671 | 0.847 | 0.749 | 6.93 | 1.837 | 0.927 | 0.816 | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 0.068 | 0.066 | 0.070 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 0.306 | 0.209 | 0.200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3.00 | 0.816 | 0.440 | 0.403 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 1.069 | 0.561 | 0.505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.00 | 1.329 | 0.684 | 0.610 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 1.592 | 0.809 | 0.716 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 1.671 | 0.847 | 0.749 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.93 | 1.837 | 0.927 | 0.816 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

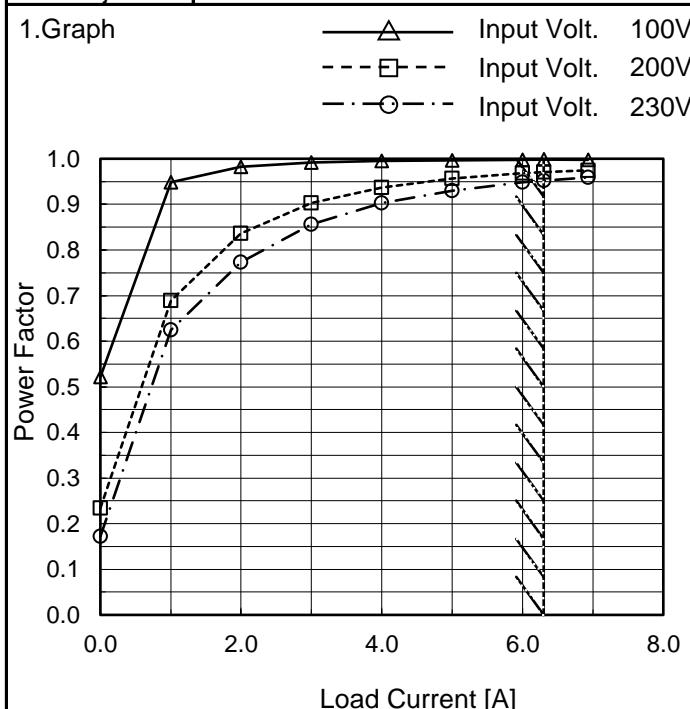
Note: Slanted line shows the range of the rated load current.

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| Model | LHP150F-24-Y | | |
|--|------------------------------|----------------------------------|--------------------|
| Item | Efficiency (by Load Current) | Temperature Testing Circuitry | 25°C Figure A |
| Object | _____ | | |
| 1.Graph | _____ | | 2.Values |
| <p>—△— Input Volt. 100V - - - □ - - Input Volt. 200V - - ○ - - Input Volt. 230V</p>  <p>Efficiency [%]</p> <p>Load Current [A]</p> | | | |
| <p>Note: Slanted line shows the range of the rated load current.</p> | | | |
| Load Current [A] | Efficiency [%] | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] |
| 0.00 | - | - | - |
| 1.00 | 82.0 | 82.8 | 82.9 |
| 2.00 | 87.2 | 88.4 | 88.8 |
| 3.00 | 88.9 | 90.5 | 90.6 |
| 4.00 | 90.2 | 91.4 | 91.6 |
| 5.00 | 90.6 | 91.8 | 92.1 |
| 6.00 | 90.7 | 92.1 | 92.3 |
| 6.30 | 90.7 | 92.1 | 92.4 |
| 6.93 | 90.7 | 92.2 | 92.4 |
| -- | - | - | - |
| -- | - | - | - |

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| | |
|--------|--------------------------------|
| Model | LHP150F-24-Y |
| Item | Power Factor (by Load Current) |
| Object | _____ |



Temperature 25°C
Testing Circuitry Figure A

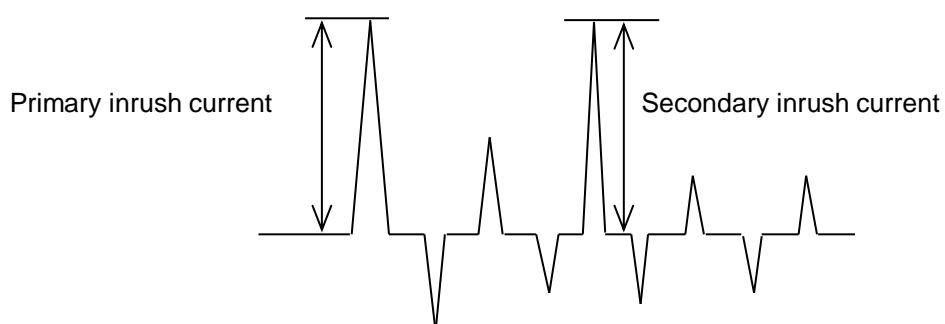
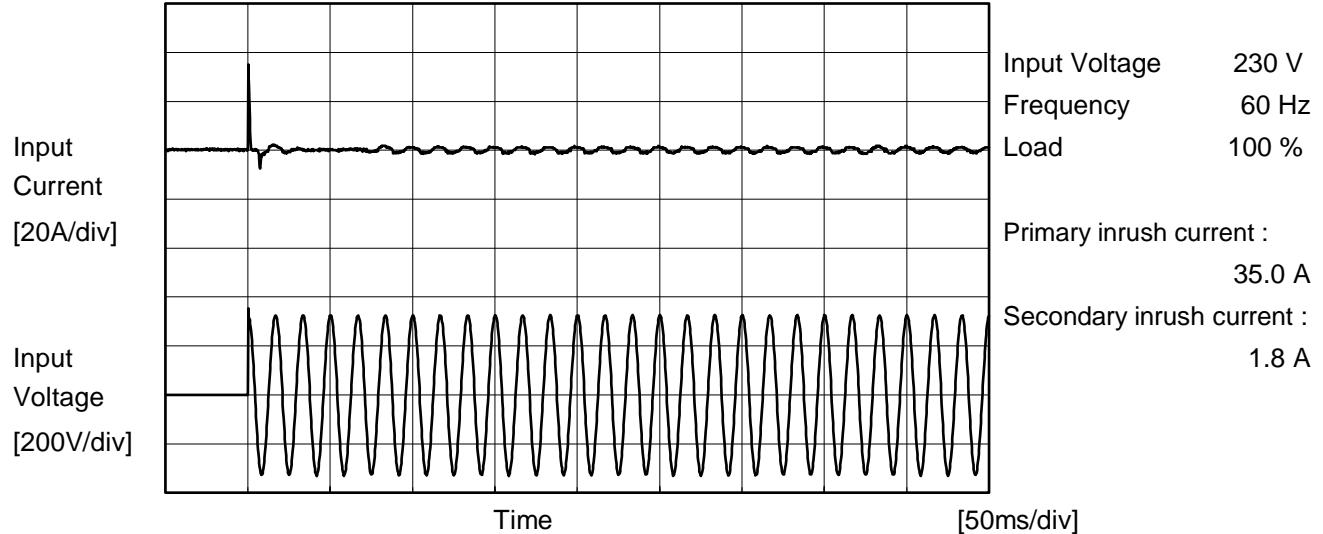
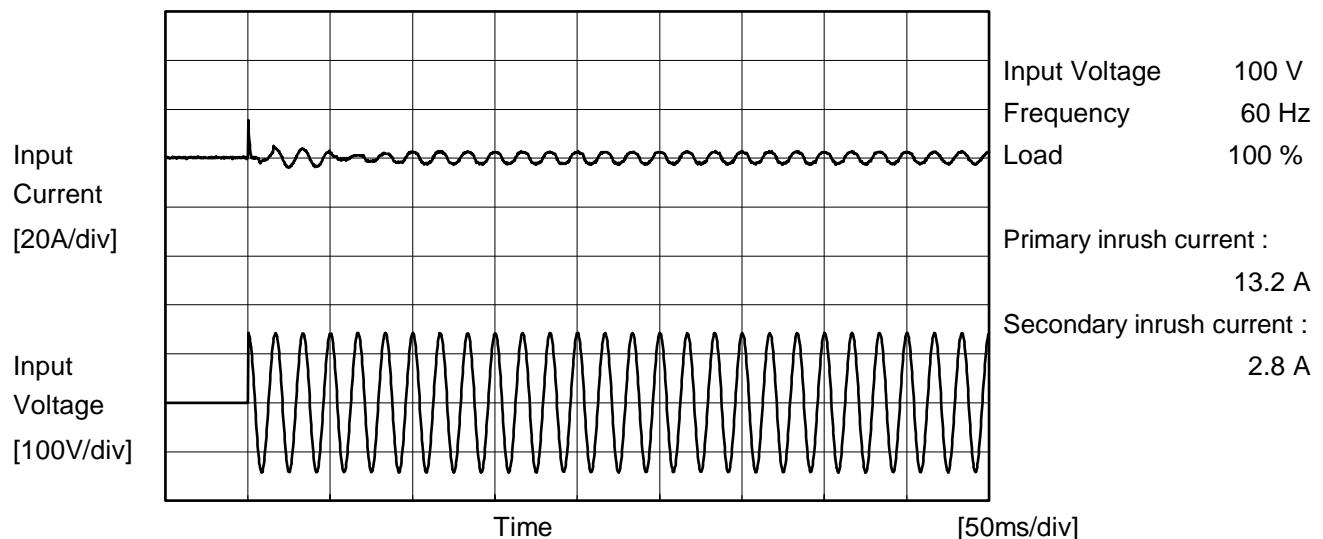
2. Values

| Load Current [A] | Power Factor | | |
|------------------|--------------------|--------------------|--------------------|
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] |
| 0.00 | 0.522 | 0.234 | 0.172 |
| 1.00 | 0.948 | 0.689 | 0.625 |
| 2.00 | 0.983 | 0.836 | 0.774 |
| 3.00 | 0.991 | 0.902 | 0.857 |
| 4.00 | 0.995 | 0.937 | 0.903 |
| 5.00 | 0.997 | 0.956 | 0.930 |
| 6.00 | 0.997 | 0.968 | 0.948 |
| 6.30 | 0.998 | 0.971 | 0.952 |
| 6.93 | 0.998 | 0.975 | 0.959 |
| -- | - | - | - |
| -- | - | - | - |

Note: Slanted line shows the range of the rated load current.

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| | | | |
|--------|----------------|-------------------|----------|
| Model | LHP150F-24-Y | Temperature | 25°C |
| Item | Inrush Current | Testing Circuitry | Figure A |
| Object | _____ | | |





| | | | |
|--------|-----------------|-------------------|----------|
| Model | LHP150F-24-Y | Temperature | 25°C |
| Item | Leakage Current | Testing Circuitry | Figure C |
| 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 | 0.15 | 0.36 | 0.37 | Operation |
| | | One of phases | 0.27 | 0.64 | 0.70 | Stand by |
| IEC62368-1 | Figure C-2 | Both phases | 0.13 | 0.34 | 0.35 | Operation |
| | | One of phases | 0.25 | 0.64 | 0.67 | Stand by |
| | Figure C-3 | Both phases | 0.13 | 0.33 | 0.34 | Operation |
| | | One of phases | 0.25 | 0.62 | 0.65 | 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.

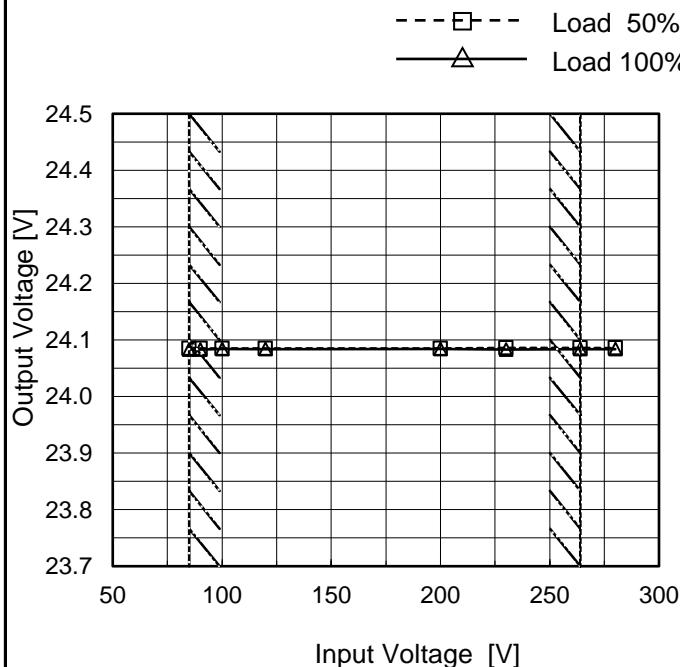
COSEL

| | |
|-------|--------------|
| Model | LHP150F-24-Y |
|-------|--------------|

| | |
|------|-----------------|
| Item | Line Regulation |
|------|-----------------|

| | |
|--------|----------|
| Object | +24V6.3A |
|--------|----------|

1. Graph



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

Temperature 25°C
Testing Circuitry Figure A

2. Values

| Input Voltage [V] | Output Voltage [V] | |
|-------------------|--------------------|-----------|
| | Load 50% | Load 100% |
| 85 | 24.085 | 24.083 |
| 90 | 24.085 | 24.083 |
| 100 | 24.085 | 24.084 |
| 120 | 24.085 | 24.084 |
| 200 | 24.085 | 24.084 |
| 230 | 24.086 | 24.083 |
| 264 | 24.086 | 24.084 |
| 280 | 24.086 | 24.084 |
| -- | - | - |

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| Model | LHP150F-24-Y | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--------------------|--------------------|------------------|--------------------|--|--|--------------------|--------------------|--------------------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|------|--------|--------|--------|----|----|----|----|----|----|----|----|
| Item | Load Regulation | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24V6.3A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | <p>—△— Input Volt. 100V - - - □ - - Input Volt. 200V - - ○ - - Input Volt. 230V</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Load Current [A] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 24.090 | 24.091 | 24.091 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 24.089 | 24.090 | 24.090 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | 24.088 | 24.088 | 24.089 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | 24.087 | 24.088 | 24.088 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | 24.086 | 24.087 | 24.087 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.00 | 24.085 | 24.085 | 24.085 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.00 | 24.084 | 24.085 | 24.085 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.30 | 24.084 | 24.084 | 24.084 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.93 | 24.083 | 24.083 | 24.083 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Ripple-Noise | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24V6.3A | Testing Circuitry | Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | <p>Input Voltage 230V Load 100%</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | | | |
|--------|-----------------------|-------------------|----------|
| Model | LHP150F-24-Y | Temperature | 25°C |
| Item | Dynamic Load Response | Testing Circuitry | Figure A |
| Object | +24V6.3A | | |

Input Volt. 230 V Response. $t_1=t_2=50\mu s$. Typ
 Cycle 1000 ms



Load 0%(0A) \longleftrightarrow
 Load 100%(6.3A)

200[mV/div]

20[ms/div]

20[ms/div]

Load 50%(3.15A) \longleftrightarrow
 Load 100%(6.3A)

200[mV/div]

20[ms/div]

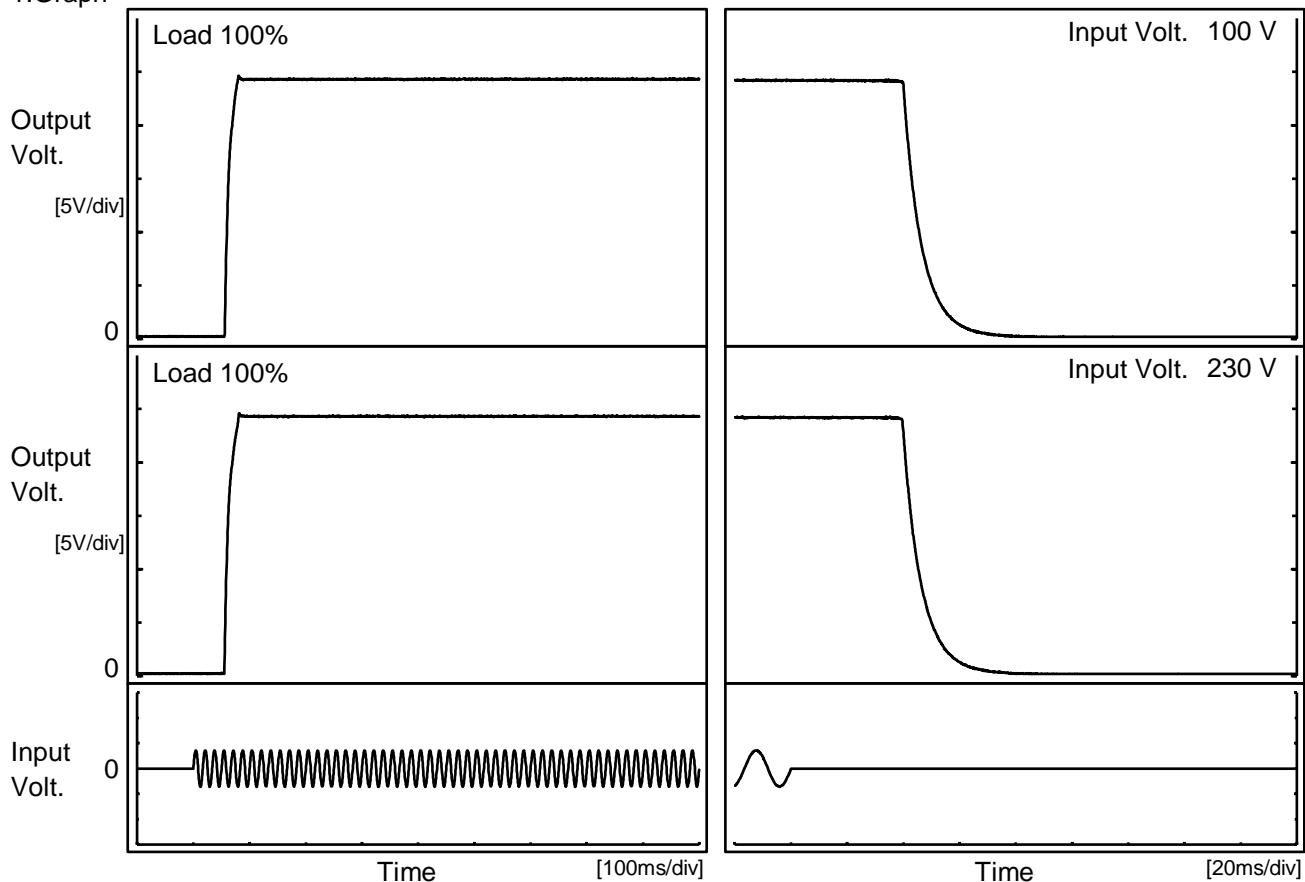
20[ms/div]

COSEL

| | |
|--------|--------------------|
| Model | LHP150F-24-Y |
| Item | Rise and Fall Time |
| Object | +24V6.3A |

Temperature
Testing Circuitry 25°C
Figure A

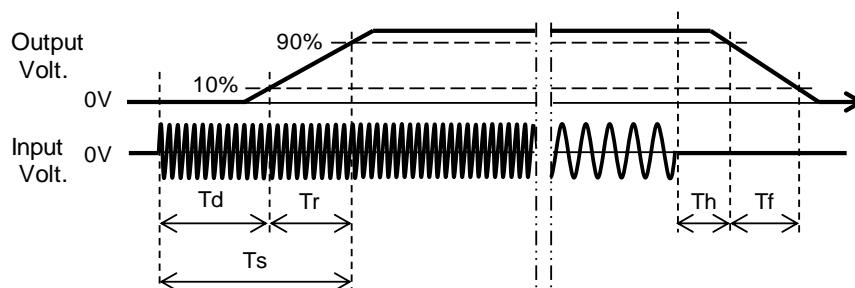
1. Graph



2. Values

[ms]

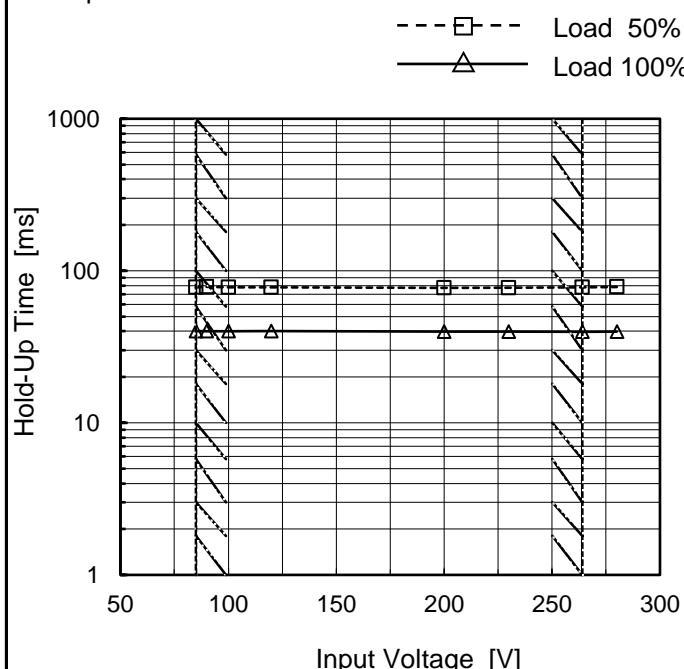
| Input Volt. | Time | Td | Tr | Ts | Th | Tf |
|-------------|------|------|------|------|------|------|
| 100 V | | 57.0 | 16.0 | 73.0 | 40.5 | 14.4 |
| 230 V | | 56.5 | 17.5 | 74.0 | 40.2 | 14.3 |



COSEL

| | | | |
|--------|--------------|----------------------------------|------------------|
| Model | LHP150F-24-Y | Temperature Testing Circuitry | 25°C Figure A |
| Item | Hold-Up Time | | |
| Object | +24V6.3A | | |

1. Graph



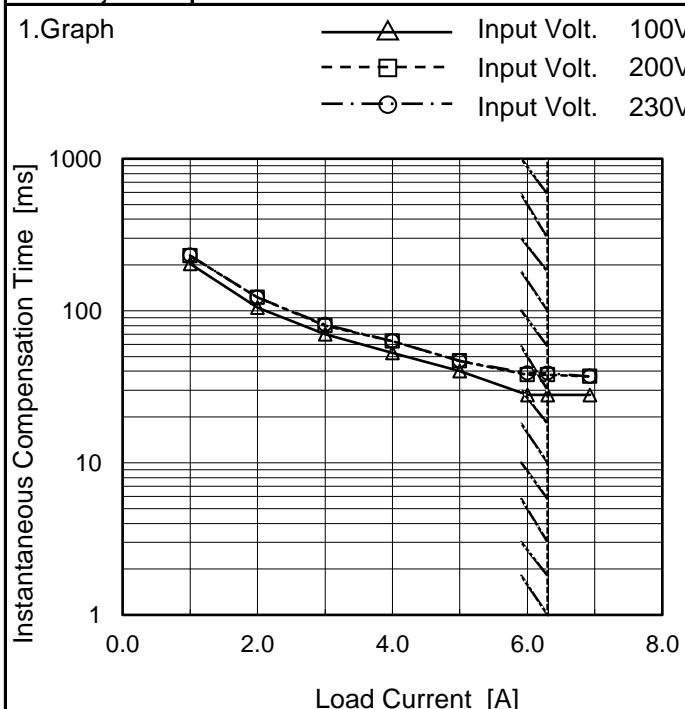
2. Values

| Input Voltage [V] | Hold-Up Time [ms] | |
|-------------------|-------------------|-----------|
| | Load 50% | Load 100% |
| 85 | 78 | 40 |
| 90 | 78 | 40 |
| 100 | 78 | 40 |
| 120 | 78 | 40 |
| 200 | 78 | 40 |
| 230 | 77 | 40 |
| 264 | 78 | 40 |
| 280 | 78 | 40 |
| -- | - | - |

This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.
 Note: Slanted line shows the range of the rated input voltage.

COSEL

| | |
|--------|---|
| Model | LHP150F-24-Y |
| Item | Instantaneous Interruption Compensation |
| Object | +24V6.3A |



Note: Slanted line shows the range of the rated load current.

Temperature 25°C
Testing Circuitry Figure A

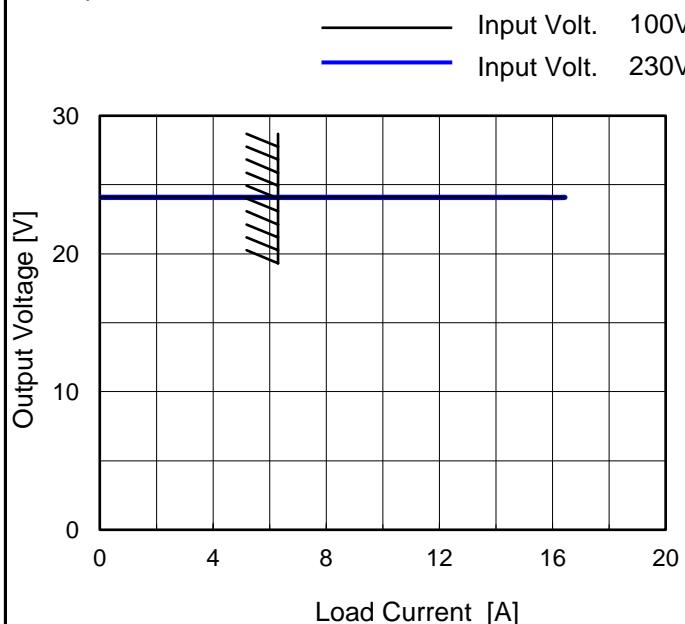
2. Values

| Load Current [A] | Time [ms] | | |
|------------------|--------------------|--------------------|--------------------|
| | Input Volt. 100[V] | Input Volt. 200[V] | Input Volt. 230[V] |
| 0.00 | - | - | - |
| 1.00 | 204 | 230 | 231 |
| 2.00 | 105 | 122 | 122 |
| 3.00 | 70 | 80 | 81 |
| 4.00 | 53 | 63 | 63 |
| 5.00 | 40 | 47 | 47 |
| 6.00 | 28 | 38 | 39 |
| 6.30 | 28 | 38 | 39 |
| 6.93 | 28 | 37 | 37 |
| -- | - | - | - |
| -- | - | - | - |

COSEL

| | |
|--------|------------------------|
| Model | LHP150F-24-Y |
| Item | Overcurrent Protection |
| Object | +24V6.3A |

1.Graph



Note: Slanted line shows the range of the rated load current.

Overcurrent protection is Hiccup mode.

Temperature 25°C
Testing Circuitry Figure A

2.Values

| Output Voltage [V] | Load Current [A] | |
|--------------------|--------------------|--------------------|
| | Input Volt. 100[V] | Input Volt. 230[V] |
| 24 | 16.44 | 16.44 |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |



| | |
|--------|---------------------------|
| Model | LHP150F-24-Y |
| Item | Ambient Temperature Drift |
| Object | +24V6.3A |

Testing Circuitry Figure A

1.Values

Load 100%

| Ambient Temperature[°C] | Output Voltage [V] | | |
|-------------------------|--------------------|------------------|------------------|
| | Input Volt. 100V | Input Volt. 200V | Input Volt. 230V |
| -10 | 24.003 | 24.003 | 24.003 |
| 25 | 24.084 | 24.084 | 24.084 |
| 50 | 24.117 | 24.117 | 24.117 |

| | |
|--------|---|
| Item | Minimum Input Voltage for Regulated Output Voltage |
| Object | +24V6.3A |

Testing Circuitry Figure A

1.Values

| Ambient Temperature[°C] | Input Voltage [V] | |
|-------------------------|-------------------|-----------|
| | Load 50% | Load 100% |
| -10 | 75 | 76 |
| 25 | 76 | 76 |
| 50 | 76 | 76 |

| | |
|--------|------------------------|
| Item | Overvoltage Protection |
| Object | +24V6.3A |

Testing Circuitry Figure A

1.Values

Load 0%

| Ambient Temperature[°C] | Operating Point [V] | |
|-------------------------|---------------------|------------------|
| | Input Volt. 100V | Input Volt. 230V |
| -10 | 30.01 | 30.01 |
| 25 | 30.78 | 30.78 |
| 50 | 31.34 | 31.34 |

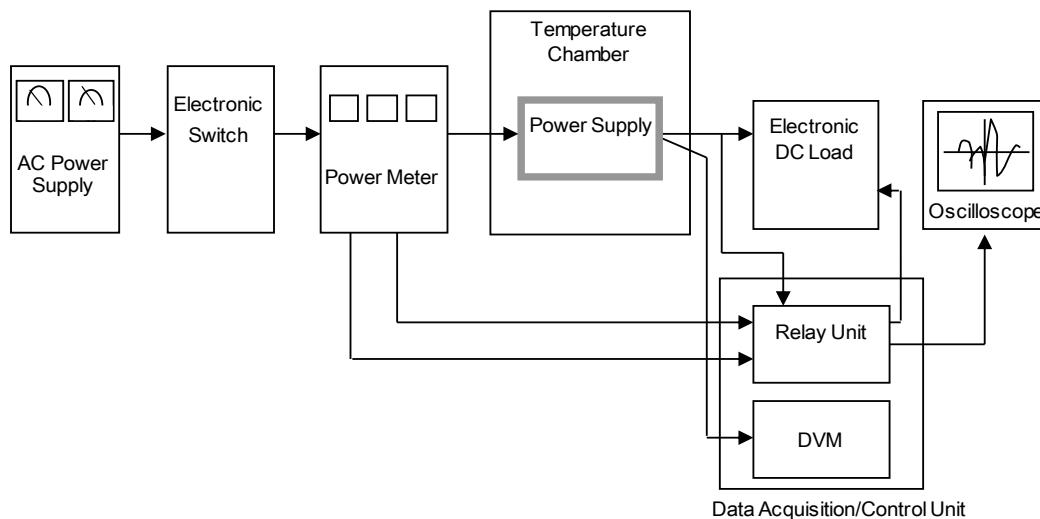
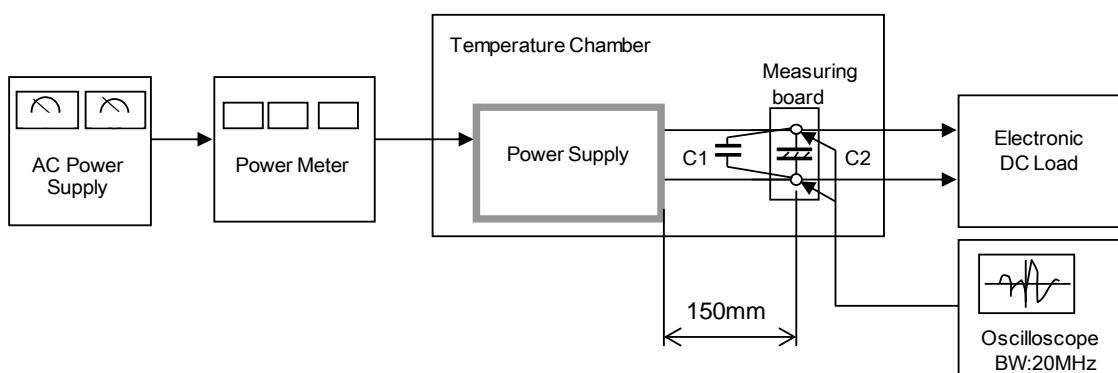


Figure A



C1= 0.1 μF
(Ceramic capacitor)

C2= 22 μF
(Electrolytic capacitor)

Figure B

