

# LEP100F

LEP 100 F -24 -□

① ② ③ ④ ⑤

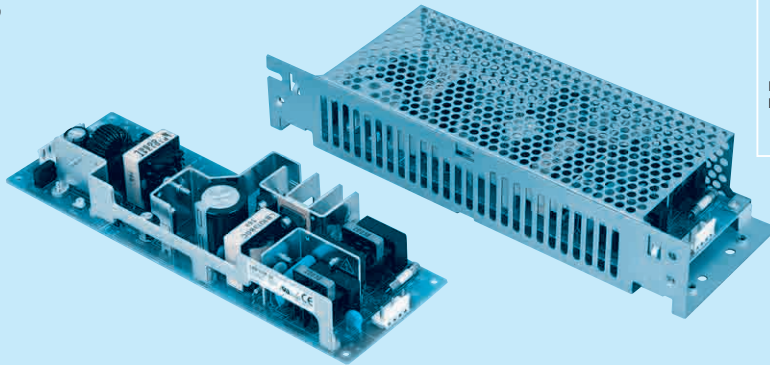


Recommended EMI/EMC Filter  
NAC-06-472



High voltage pulse noise type : NAP series  
Low leakage current type : NAM series  
\* The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
  - ② Output wattage
  - ③ Universal input
  - ④ Output voltage
  - ⑤ Optional \*1 \*6
- G : Low leakage current  
R : with Remote ON/OFF  
S : with Chassis  
SN : with Chassis & cover  
T : Vertical terminal block  
U : Operating stop voltage is set at a lower value  
Z : with ZT



| MODEL     | LEP100F-24        | LEP100F-36          | LEP100F-48          |
|-----------|-------------------|---------------------|---------------------|
| DC OUTPUT | +24V 4.2(Peak 7)A | +36V 2.8(Peak 4.7)A | +48V 2.1(Peak 3.5)A |

## SPECIFICATIONS

|                               | MODEL                              |                                                                                | LEP100F-24                                                                                                      | LEP100F-36         | LEP100F-48         |
|-------------------------------|------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| INPUT                         | VOLTAGE[V]                         |                                                                                | AC85 - 264 1 φ or DC 120 - 370                                                                                  |                    |                    |
|                               | CURRENT[A]                         | ACIN 100V                                                                      | 1.4typ (Io=100%)                                                                                                |                    |                    |
|                               |                                    | ACIN 200V                                                                      | 0.7typ (Io=100%)                                                                                                |                    |                    |
|                               | FREQUENCY[Hz]                      |                                                                                | 50/60 (47 - 63) or DC                                                                                           |                    |                    |
|                               | EFFICIENCY[%]                      | ACIN 100V                                                                      | 81typ (Io=100%)                                                                                                 | 82typ (Io=100%)    | 83typ (Io=100%)    |
|                               |                                    | ACIN 200V                                                                      | 84typ (Io=100%)                                                                                                 | 85typ (Io=100%)    | 85typ (Io=100%)    |
|                               | POWER FACTOR                       | ACIN 100V                                                                      | 0.98typ (Io=100%)                                                                                               |                    |                    |
|                               |                                    | ACIN 200V                                                                      | 0.93typ (Io=100%)                                                                                               |                    |                    |
|                               | INRUSH CURRENT[A]                  | ACIN 100V                                                                      | 15typ (Io=100%) (At cold start) (Ta=25℃)                                                                        |                    |                    |
|                               |                                    | ACIN 200V                                                                      | 30typ (Io=100%) (At cold start) (Ta=25℃)                                                                        |                    |                    |
|                               | LEAKAGE CURRENT[ma]                |                                                                                | 0.75max (60Hz, According to IEC60950 and DEN-AN)                                                                |                    |                    |
| OUTPUT                        | VOLTAGE[V]                         |                                                                                | +24                                                                                                             | +36                | +48                |
|                               | CURRENT[A]                         |                                                                                | 0 - 4.2 (Peak 7)                                                                                                | 0 - 2.8 (Peak 4.7) | 0 - 2.1 (Peak 3.5) |
|                               | WATTAGE[W]                         |                                                                                | 100.8 (Peak 168)                                                                                                | 100.8 (Peak 169.2) | 100.8 (Peak 168)   |
|                               | LINE REGULATION[mV]                |                                                                                | 48max                                                                                                           | 48max              | 48max              |
|                               | LOAD REGULATION[mV]                |                                                                                | 76max                                                                                                           | 90max              | 150max             |
|                               | RIPPLE[mVp-p]                      | 0 to +50℃                                                                      | 120max                                                                                                          | 120max             | 150max             |
|                               |                                    | -10 - 0℃                                                                       | 160max                                                                                                          | 160max             | 300max             |
|                               | RIPPLE NOISE[mVp-p]                | 0 to +50℃                                                                      | 150max                                                                                                          | 150max             | 250max             |
|                               |                                    | -10 - 0℃                                                                       | 180max                                                                                                          | 180max             | 350max             |
|                               | TEMPERATURE REGULATION[mV]         | 0 to +50℃                                                                      | 120max                                                                                                          | 150max             | 240max             |
|                               |                                    | -10 to +50℃                                                                    | 145max                                                                                                          | 180max             | 300max             |
|                               | DRIFT[mV]                          |                                                                                | 48max                                                                                                           | 48max              | 48max              |
|                               | START-UP TIME[ms]                  |                                                                                | 500max (ACIN 100V, Io=100%)                                                                                     |                    |                    |
|                               | HOLD-UP TIME[ms]                   |                                                                                | 20typ (ACIN 100V, Io=100%)                                                                                      |                    |                    |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE[V] |                                                                                | 21.4 - 26.4                                                                                                     | 26.4 - 39.6        | 39.6 - 52.8        |
|                               | OUTPUT VOLTAGE SETTING[V]          |                                                                                | 23.0 - 25.0                                                                                                     | 35.0 - 37.0        | 46.0 - 50.0        |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION             |                                                                                | Works over 101% of peak current and recovers automatically                                                      |                    |                    |
|                               | OVERVOLTAGE PROTECTION             |                                                                                | Works at 115 - 140% of rating                                                                                   |                    |                    |
|                               | REMOTE ON/OFF                      |                                                                                | Option (Refer to Instruction Manual)                                                                            |                    |                    |
| ISOLATION                     | INPUT-OUTPUT · RC                  | AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) |                                                                                                                 |                    |                    |
|                               | INPUT-FG                           | AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) |                                                                                                                 |                    |                    |
|                               | OUTPUT · RC-FG                     | AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)  |                                                                                                                 |                    |                    |
|                               | OUTPUT-RC                          | AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)  |                                                                                                                 |                    |                    |
| ENVIRONMENT                   | OPERATING TEMP.,HUMID.AND ALTITUDE |                                                                                | -10 to +70℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max                     |                    |                    |
|                               | STORAGE TEMP.,HUMID.AND ALTITUDE   |                                                                                | -20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max                                               |                    |                    |
|                               | VIBRATION                          |                                                                                | 10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis                     |                    |                    |
|                               | IMPACT                             |                                                                                | 196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis                                                    |                    |                    |
| SAFETY AND NOISE REGULATIONS  | AGENCY APPROVALS                   |                                                                                | UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60065, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input) |                    |                    |
|                               | CONDUCTED NOISE                    |                                                                                | Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B                                                               |                    |                    |
|                               | HARMONIC ATTENUATOR                |                                                                                | Complies with IEC61000-3-2                                                                                      |                    |                    |
| OTHERS                        | CASE SIZE/WEIGHT                   |                                                                                | 75 X 35 X 222mm [2.95 X 1.38 X 8.74 inches] (W X H X D) /380g max (with chassis & cover : 650g max)             |                    |                    |
|                               | COOLING METHOD                     |                                                                                | Convection                                                                                                      |                    |                    |

\*1 Specification is changed at option, refer to Instruction Manual 6.

\*2 Peak loading for 10sec. And Duty 35% max, refer to Instruction Manual 5. In detail.

\*3 This is the value that measured on measuring board with capacitor of 22μF within 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).

\*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

\*5 Applicable when remote control (optional) is added.

\*6 Please contact us about safety approvals for the model with option.

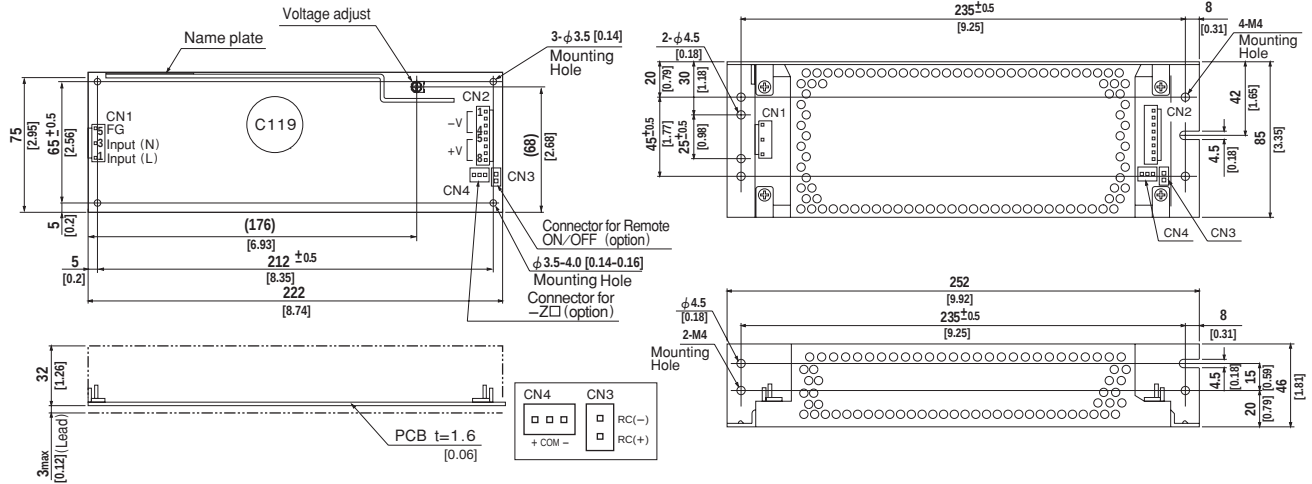
\*7 Please contact us about class C.

\* Parallel operation with other model is not possible.

\* Derating is required when operated with chassis and cover.

\* A sound may occur from power supply at peak loading.

## External view



| I / O Connector     | Mating Connector | Terminal             |
|---------------------|------------------|----------------------|
| <b>CN1</b>          | B3P5-VH          | VHR-5N               |
|                     |                  | Chain: SVH-21T-P1.1  |
|                     |                  | Loose: BVH-21T-P1.1  |
| <b>CN2</b>          | B8P-VH           | VHR-8N               |
|                     |                  | Chain: SVH-21T-P1.1  |
|                     |                  | Loose: BVH-21T-P1.1  |
| <b>CN3 (Option)</b> | B2B-XH-A         | XHP-2                |
|                     |                  | Chain: SXH-001T-P0.6 |
|                     |                  | Loose: BXH-001T-P0.6 |
| <b>CN4 (Option)</b> | B3B-XH-A         | XHP-3                |
|                     |                  | Chain: SXH-001T-P0.6 |
|                     |                  | Loose: BXH-001T-P0.6 |

(Mfr: J.S.T.)

### CN1

| Pin No. | Input |
|---------|-------|
| 1       | AC(L) |
| 2       |       |
| 3       | AC(N) |
| 4       |       |
| 5       | FG    |

### 〈PIN CONNECTION〉

#### CN2

| Pin No.    | Output |
|------------|--------|
| 1, 2, 3, 4 | -V     |
| 5, 6, 7, 8 | +V     |

#### CN3 (Option)

| Pin No. | Remote ON/OFF |
|---------|---------------|
| 1       | RC(+)         |
| 2       | RC(-)         |

#### CN4 (Option)

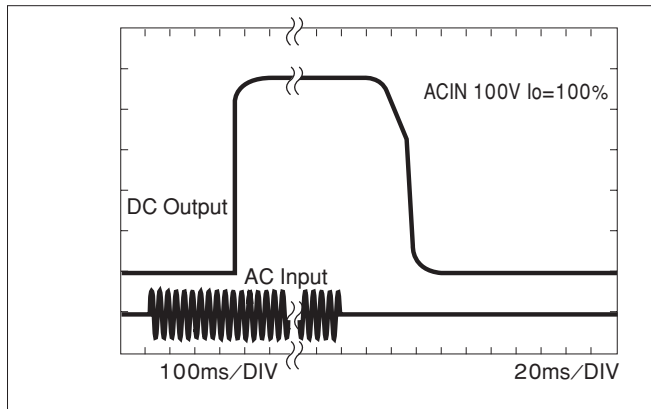
| Pin No. | -Z  |
|---------|-----|
| 1       | +   |
| 2       | COM |
| 3       | -   |

- ※Weight: 380g max  
(with chassis & cover : 650g max)
- ※Tolerance:  $\pm 1$  [ $\pm 0.04$ ]
- ※Dimensions in mm, [ ]=inches
- ※PCB Material : CEM3
- ※Chassis and cover is optional.
- ※Mounting torque: 1.5N·m(16kgf·cm)max

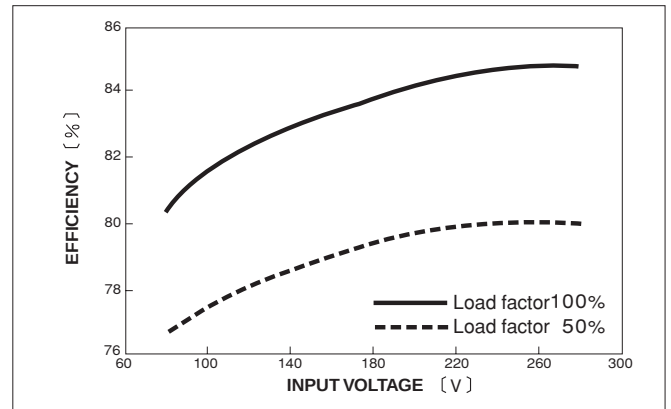
※Keep drawing current per pin below 5A(7A at peak load)for CN2

## Performance data

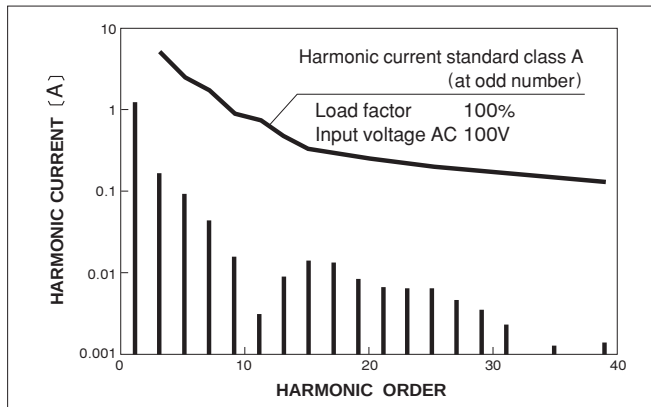
### RISE TIME & FALL TIME (LEP100F-24)



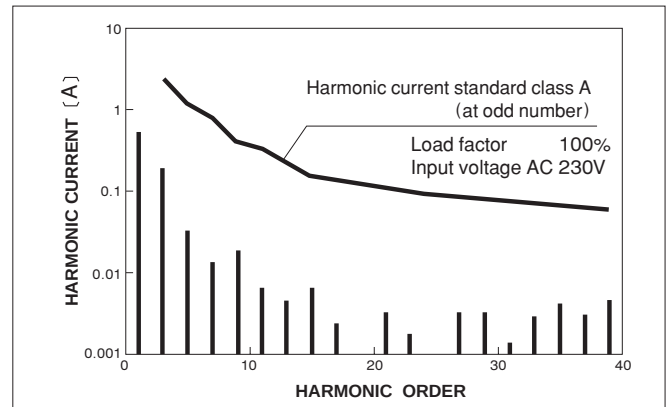
### EFFICIENCY (LEP100F-24)



### INPUT HARMONIC CURRENT (LEP100F-24)

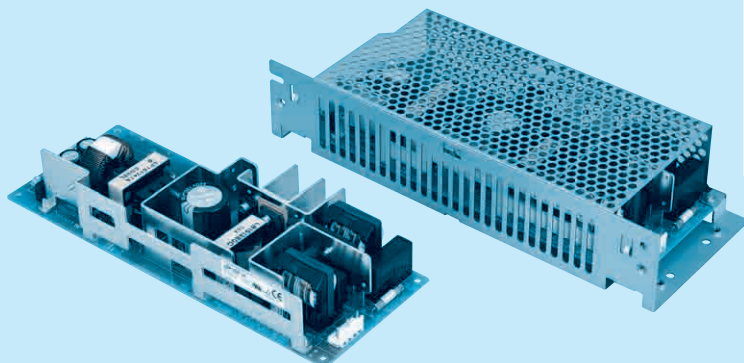


### INPUT HARMONIC CURRENT (LEP100F-24)





RoHS


Recommended EMI/EMC Filter  
NAC-06-472

High voltage pulse noise type : NAP series  
Low leakage current type : NAM series  
\* The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name  
② Output wattage  
③ Universal input  
④ Output voltage  
⑤ Optional \*1 \*6  
G : Low leakage current  
R : with Remote ON/OFF  
S : with Chassis  
SN : with Chassis & cover  
T : Vertical terminal block  
U : Operating stop voltage is set at a lower value  
Z : with ZT

| MODEL     | LEP150F-24         | LEP150F-36        | LEP150F-48        |
|-----------|--------------------|-------------------|-------------------|
| DC OUTPUT | +24V 6.3(Peak 12)A | +36V 4.2(Peak 8)A | +48V 3.2(Peak 6)A |

## SPECIFICATIONS

|                               | MODEL                              | LEP150F-24                                                                                                      | LEP150F-36                               | LEP150F-48       |             |
|-------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------|-------------|
| INPUT                         | VOLTAGE[V]                         | AC85 - 264 1 φ or DC 120 - 370                                                                                  |                                          |                  |             |
|                               | CURRENT[A]                         | ACIN 100V                                                                                                       | 2.0typ (Io=100%)                         |                  |             |
|                               |                                    | ACIN 200V                                                                                                       | 1.0typ (Io=100%)                         |                  |             |
|                               | FREQUENCY[Hz]                      | 50/60 (47 - 63) or DC                                                                                           |                                          |                  |             |
|                               | EFFICIENCY[%]                      | ACIN 100V                                                                                                       | 82typ (Io=100%)                          | 83typ (Io=100%)  |             |
|                               |                                    | ACIN 200V                                                                                                       | 85typ (Io=100%)                          | 86typ (Io=100%)  |             |
|                               | POWER FACTOR                       | ACIN 100V                                                                                                       | 0.98typ (Io=100%)                        |                  |             |
|                               |                                    | ACIN 200V                                                                                                       | 0.93typ (Io=100%)                        |                  |             |
|                               | INRUSH CURRENT[A]                  | ACIN 100V                                                                                                       | 15typ (Io=100%) (At cold start) (Ta=25℃) |                  |             |
|                               |                                    | ACIN 200V                                                                                                       | 30typ (Io=100%) (At cold start) (Ta=25℃) |                  |             |
|                               | LEAKAGE CURRENT[ma]                | 0.75max (60Hz, According to IEC60950 and DEN-AN)                                                                |                                          |                  |             |
| OUTPUT                        | VOLTAGE[V]                         | +24                                                                                                             | +36                                      | +48              |             |
|                               | CURRENT[A]                         | *2 0 - 6.3 (Peak 12)                                                                                            | 0 - 4.2 (Peak 8)                         | 0 - 3.2 (Peak 6) |             |
|                               | WATTAGE[W]                         | 151.2 (Peak 288)                                                                                                | 151.2 (Peak 288)                         | 153.6 (Peak 288) |             |
|                               | LINE REGULATION[mV]                | 48max                                                                                                           | 48max                                    | 48max            |             |
|                               | LOAD REGULATION[mV]                | 76max                                                                                                           | 90max                                    | 150max           |             |
|                               | RIPPLE[mVp-p]                      | 0 to +45℃ *3                                                                                                    | 120max                                   | 120max           | 150max      |
|                               |                                    | -10 - 0℃ *3                                                                                                     | 160max                                   | 160max           | 300max      |
|                               | RIPPLE NOISE[mVp-p]                | 0 to +45℃ *3                                                                                                    | 150max                                   | 150max           | 250max      |
|                               |                                    | -10 - 0℃ *3                                                                                                     | 180max                                   | 180max           | 350max      |
|                               | TEMPERATURE REGULATION[mV]         | 0 to +45℃                                                                                                       | 120max                                   | 150max           | 240max      |
|                               |                                    | -10 to +45℃                                                                                                     | 145max                                   | 180max           | 300max      |
|                               | DRIFT[mV]                          | *4                                                                                                              | 48max                                    | 48max            | 48max       |
|                               | START-UP TIME[ms]                  | 500max (ACIN 100V, Io=100%)                                                                                     |                                          |                  |             |
|                               | HOLD-UP TIME[ms]                   | 20typ (ACIN 100V, Io=100%)                                                                                      |                                          |                  |             |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | 21.4 - 26.4                                                                                                     |                                          | 26.4 - 39.6      | 39.6 - 52.8 |
| OUTPUT VOLTAGE SETTING[V]     | 23.0 - 25.0                        |                                                                                                                 | 35.0 - 37.0                              | 46.0 - 50.0      |             |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION             | Works over 101% of peak current and recovers automatically                                                      |                                          |                  |             |
|                               | OVERVOLTAGE PROTECTION             | Works at 115 - 140% of rating                                                                                   |                                          |                  |             |
|                               | REMOTE ON/OFF                      | Option (Refer to Instruction Manual)                                                                            |                                          |                  |             |
| ISOLATION                     | INPUT-OUTPUT · RC                  | *5 AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)                               |                                          |                  |             |
|                               | INPUT-FG                           | AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)                                  |                                          |                  |             |
|                               | OUTPUT · RC-FG                     | *5 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)                                |                                          |                  |             |
|                               | OUTPUT-RC                          | *5 AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)                                |                                          |                  |             |
| ENVIRONMENT                   | OPERATING TEMP.,HUMID.AND ALTITUDE | -10 to +70℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max                     |                                          |                  |             |
|                               | STORAGE TEMP.,HUMID.AND ALTITUDE   | -20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max                                               |                                          |                  |             |
|                               | VIBRATION                          | 10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis                     |                                          |                  |             |
|                               | IMPACT                             | 196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis                                                    |                                          |                  |             |
| SAFETY AND NOISE REGULATIONS  | AGENCY APPROVALS                   | UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60065, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input) |                                          |                  |             |
|                               | CONDUCTED NOISE                    | Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B                                                               |                                          |                  |             |
|                               | HARMONIC ATTENUATOR                | Complies with IEC61000-3-2 *7                                                                                   |                                          |                  |             |
| OTHERS                        | CASE SIZE/WEIGHT                   | 85 X 40 X 222mm [3.35 X 1.57 X 8.74 inches] (W X H X D) /490g max (with chassis & cover : 830g max)             |                                          |                  |             |
|                               | COOLING METHOD                     | Convection                                                                                                      |                                          |                  |             |

\*1 Specification is changed at option, refer to Instruction Manual 6.

\*2 Peak loading for 10sec. And Duty 35% max, refer to Instruction Manual 5. In detail.

\*3 This is the value that measured on measuring board with capacitor of 22μF within 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).

\*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

\*5 Applicable when remote control (optional) is added.

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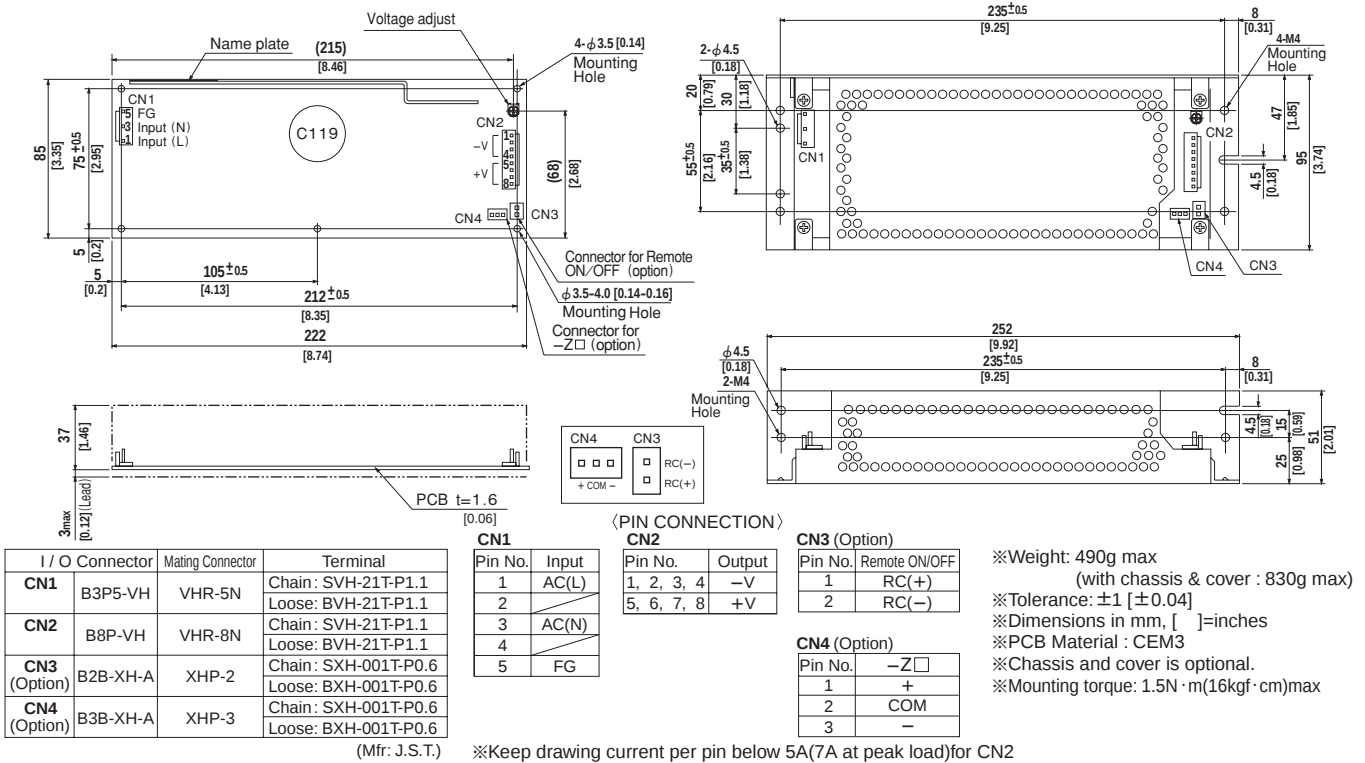
\*7 Please contact us about class C.

\* Parallel operation with other model is not possible.

\* Derating is required when operated with chassis and cover.

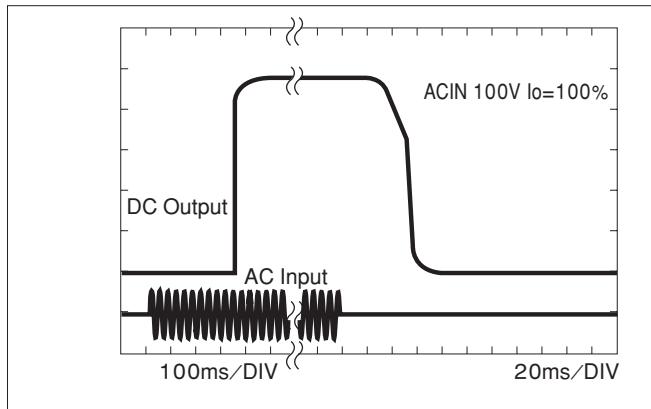
\* A sound may occur from power supply at peak loading.

## External view

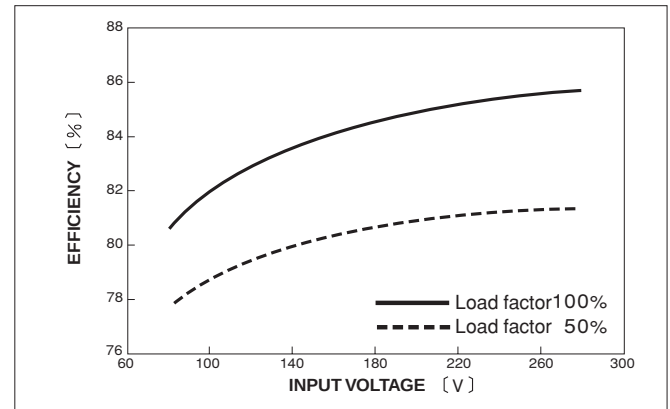


## Performance data

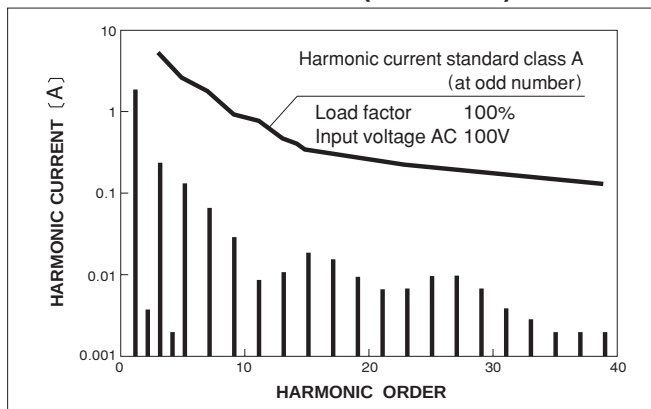
### RISE TIME & FALL TIME (LEP150F-24)



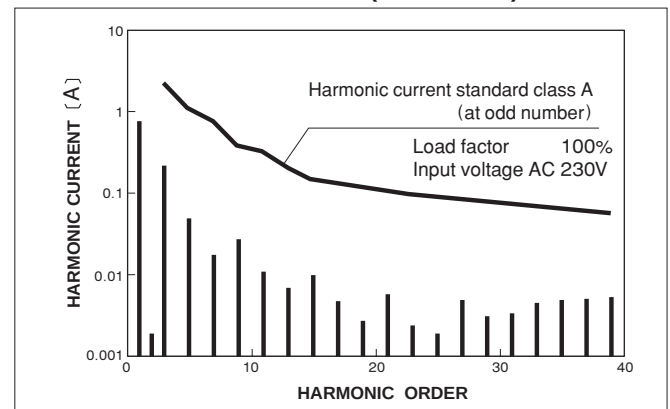
### EFFICIENCY (LEP150F-24)



### INPUT HARMONIC CURRENT (LEP150F-24)



### INPUT HARMONIC CURRENT (LEP150F-24)



# LEP240F

LEP 240 F -24 -□

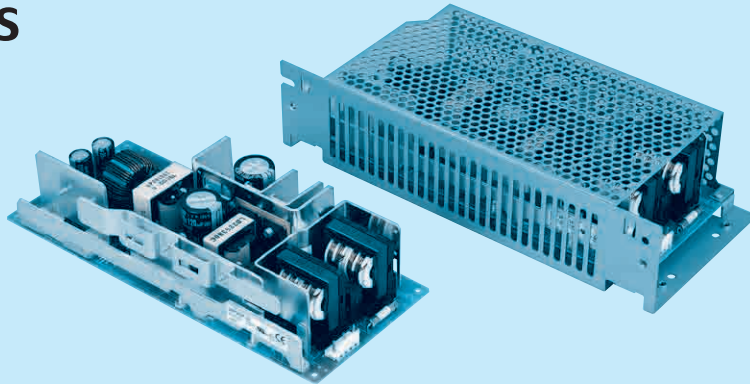
①

②

③

④

⑤



Recommended EMI/EMC Filter  
NAC-06-472



High voltage pulse noise type : NAP series  
Low leakage current type : NAM series  
\* The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
  - ② Output wattage
  - ③ Universal input
  - ④ Output voltage
  - ⑤ Optional \*1 \*6
- G : Low leakage current  
R : with Remote ON/OFF  
S : with Chassis  
SN : with Chassis & cover  
T : Vertical terminal block  
U : Operating stop voltage is set at a lower value  
Z : with ZT

|           |                   |                      |                  |
|-----------|-------------------|----------------------|------------------|
| MODEL     | LEP240F-24        | LEP240F-36           | LEP240F-48       |
| DC OUTPUT | +24V 10(Peak 20)A | +36V 6.7(Peak 13.4)A | +48V 5(Peak 10)A |

## SPECIFICATIONS

|                              | MODEL                              |                                                                                | LEP240F-24                                                                                                      | LEP240F-36                                                 | LEP240F-48       |
|------------------------------|------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------|
| INPUT                        | VOLTAGE[V]                         |                                                                                | AC85 - 264 1 φ or DC 120 - 370                                                                                  |                                                            |                  |
|                              | CURRENT[A]                         | ACIN 100V                                                                      | 3.3typ (Io=100%)                                                                                                |                                                            |                  |
|                              |                                    | ACIN 200V                                                                      | 1.7typ (Io=100%)                                                                                                |                                                            |                  |
|                              | FREQUENCY[Hz]                      |                                                                                | 50/60 (47 - 63) or DC                                                                                           |                                                            |                  |
|                              | EFFICIENCY[%]                      | ACIN 100V                                                                      | 83typ (Io=100%)                                                                                                 | 84typ (Io=100%)                                            | 84typ (Io=100%)  |
|                              |                                    | ACIN 200V                                                                      | 86typ (Io=100%)                                                                                                 | 87typ (Io=100%)                                            | 87typ (Io=100%)  |
|                              | POWER FACTOR                       | ACIN 100V                                                                      | 0.98typ (Io=100%)                                                                                               |                                                            |                  |
|                              |                                    | ACIN 200V                                                                      | 0.93typ (Io=100%)                                                                                               |                                                            |                  |
|                              | ACIN 100V                          | 15typ (Io=100%) (More than 3sec.to re-start)                                   |                                                                                                                 |                                                            |                  |
|                              | ACIN 200V                          | 30typ (Io=100%) (More than 3sec.to re-start)                                   |                                                                                                                 |                                                            |                  |
| LEAKAGE CURRENT[ma]          |                                    | 0.75max (60Hz, According to IEC60950 and DEN-AN)                               |                                                                                                                 |                                                            |                  |
| OUTPUT                       | VOLTAGE[V]                         |                                                                                | +24                                                                                                             | +36                                                        | +48              |
|                              | CURRENT[A]                         |                                                                                | 0 - 10 (Peak 20)                                                                                                | 0 - 6.7 (Peak 13.4)                                        | 0 - 5 (Peak 10)  |
|                              | WATTAGE[W]                         |                                                                                | 240.0 (Peak 480)                                                                                                | 241.2 (Peak 482.4)                                         | 240.0 (Peak 480) |
|                              | LINE REGULATION[mV]                |                                                                                | 48max                                                                                                           | 48max                                                      | 48max            |
|                              | LOAD REGULATION[mV]                |                                                                                | 76max                                                                                                           | 90max                                                      | 150max           |
|                              | RIPPLE[mVp-p]                      | 0 to +40℃                                                                      | 120max                                                                                                          | 120max                                                     | 150max           |
|                              |                                    | -10 - 0℃                                                                       | 160max                                                                                                          | 160max                                                     | 300max           |
|                              | RIPPLE NOISE[mVp-p]                | 0 to +40℃                                                                      | 150max                                                                                                          | 150max                                                     | 250max           |
|                              |                                    | -10 - 0℃                                                                       | 180max                                                                                                          | 180max                                                     | 350max           |
|                              | TEMPERATURE REGULATION[mV]         | 0 to +40℃                                                                      | 120max                                                                                                          | 150max                                                     | 240max           |
|                              |                                    | -10 to +40℃                                                                    | 145max                                                                                                          | 180max                                                     | 300max           |
|                              | DRIFT[mV]                          |                                                                                | 48max                                                                                                           | 48max                                                      | 48max            |
|                              | START-UP TIME[ms]                  |                                                                                | 500max (ACIN 100V, Io=100%)                                                                                     |                                                            |                  |
|                              | HOLD-UP TIME[ms]                   |                                                                                | 20typ (ACIN 100V, Io=100%)                                                                                      |                                                            |                  |
|                              | OUTPUT VOLTAGE ADJUSTMENT RANGE[V] |                                                                                | 21.4 - 26.4                                                                                                     | 26.4 - 39.6                                                | 39.6 - 52.8      |
|                              | OUTPUT VOLTAGE SETTING[V]          |                                                                                | 23.0 - 25.0                                                                                                     | 35.0 - 37.0                                                | 46.0 - 50.0      |
|                              | PROTECTION CIRCUIT AND OTHERS      | OVERCURRENT PROTECTION                                                         |                                                                                                                 | Works over 101% of peak current and recovers automatically |                  |
| OVERVOLTAGE PROTECTION       |                                    | Works at 115 - 140% of rating                                                  |                                                                                                                 |                                                            |                  |
| REMOTE ON/OFF                |                                    | Option (Refer to Instruction Manual)                                           |                                                                                                                 |                                                            |                  |
| ISOLATION                    | INPUT-OUTPUT · RC                  | AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) |                                                                                                                 |                                                            |                  |
|                              | INPUT-FG                           | AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) |                                                                                                                 |                                                            |                  |
|                              | OUTPUT · RC-FG                     | AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)  |                                                                                                                 |                                                            |                  |
|                              | OUTPUT-RC                          | AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)  |                                                                                                                 |                                                            |                  |
| ENVIRONMENT                  | OPERATING TEMP.,HUMID.AND ALTITUDE |                                                                                | -10 to +70℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max                     |                                                            |                  |
|                              | STORAGE TEMP.,HUMID.AND ALTITUDE   |                                                                                | -20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max                                               |                                                            |                  |
|                              | VIBRATION                          |                                                                                | 10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis                     |                                                            |                  |
|                              | IMPACT                             |                                                                                | 196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis                                                    |                                                            |                  |
| SAFETY AND NOISE REGULATIONS | AGENCY APPROVALS                   |                                                                                | UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60065, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input) |                                                            |                  |
|                              | CONDUCTED NOISE                    |                                                                                | Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B                                                               |                                                            |                  |
|                              | HARMONIC ATTENUATOR                |                                                                                | Complies with IEC61000-3-2                                                                                      |                                                            |                  |
| OTHERS                       | CASE SIZE/WEIGHT                   |                                                                                | 95 X 45 X 222mm [3.74 X 1.77 X 8.74 inches] (W X H X D) /690g max (with chassis & cover : 1,070g max)           |                                                            |                  |
|                              | COOLING METHOD                     |                                                                                | Convection                                                                                                      |                                                            |                  |

\*1 Specification is changed at option, refer to Instruction Manual 6.

\*2 Peak loading for 10sec. And Duty 35% max, refer to Instruction Manual 5. In detail.

\*3 This is the value that measured on measuring board with capacitor of 22μF within 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).

\*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.

\*5 Applicable when remote control (optional) is added.

\*6 Please contact us about safety approvals for the model with option.

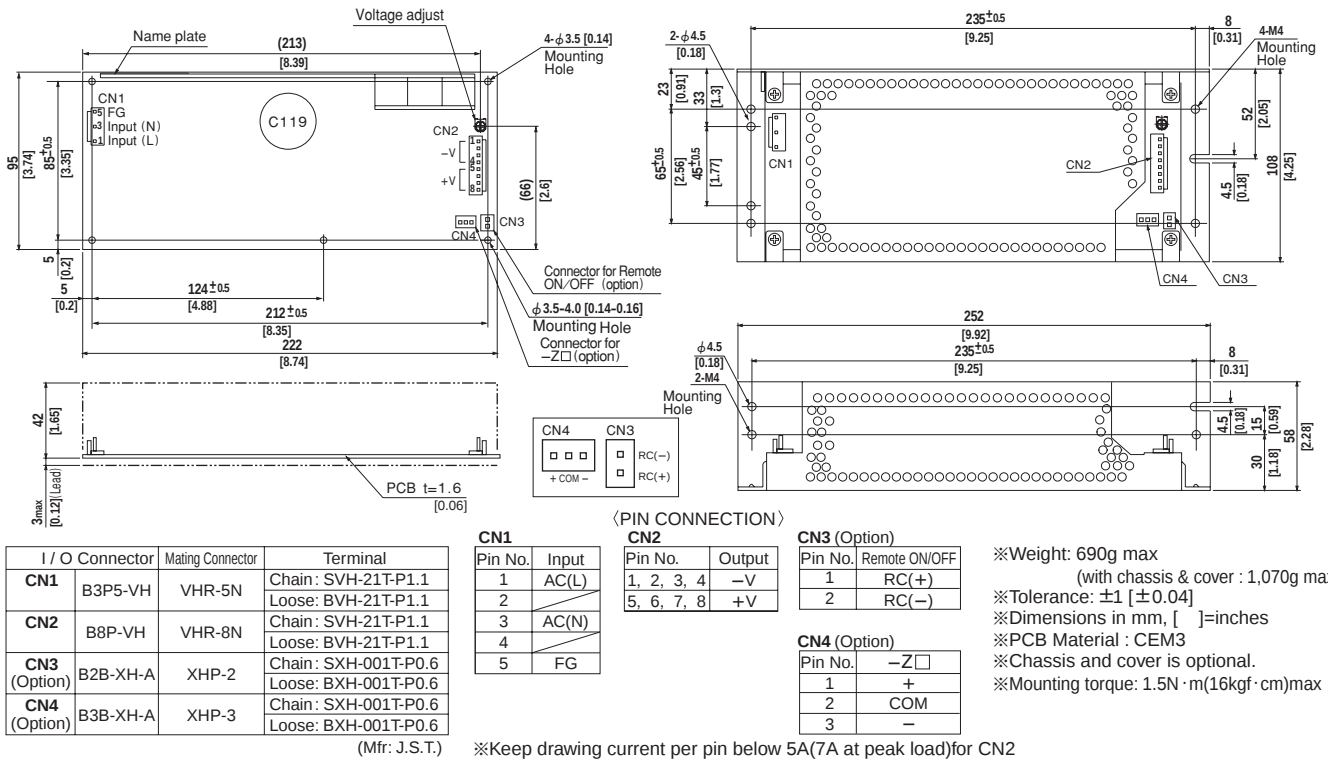
\*7 Please contact us about class C.

\* Parallel operation with other model is not possible.

\* Derating is required when operated with chassis and cover.

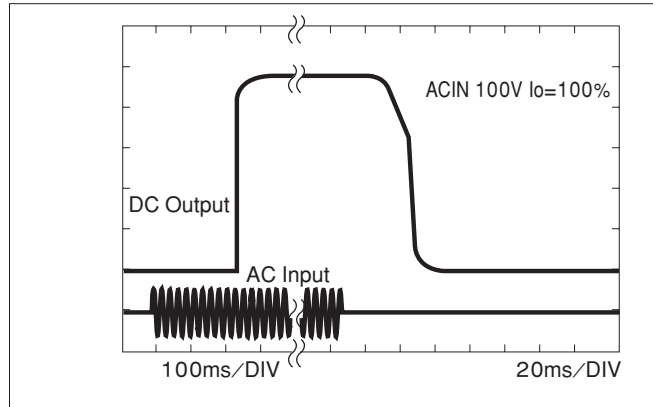
\* A sound may occur from power supply at peak loading.

## External view

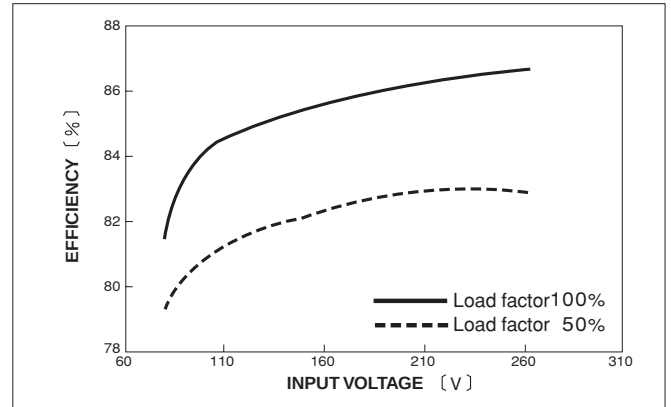


## Performance data

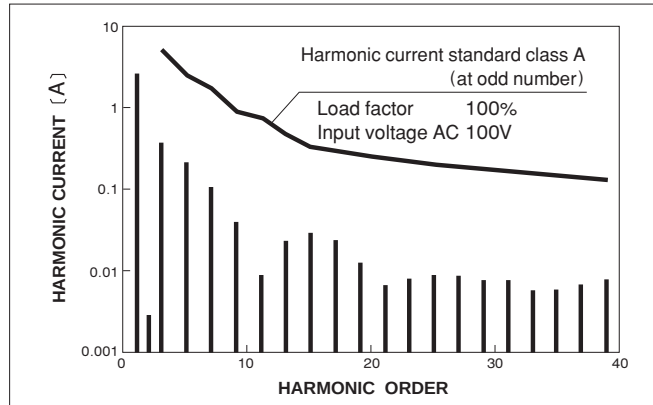
### RISE TIME & FALL TIME (LEP240F-24)



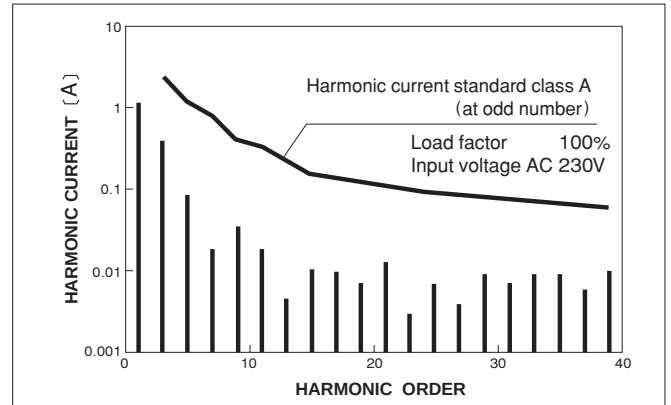
### EFFICIENCY (LEP240F-24)



### INPUT HARMONIC CURRENT (LEP240F-24)



### INPUT HARMONIC CURRENT (LEP240F-24)



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