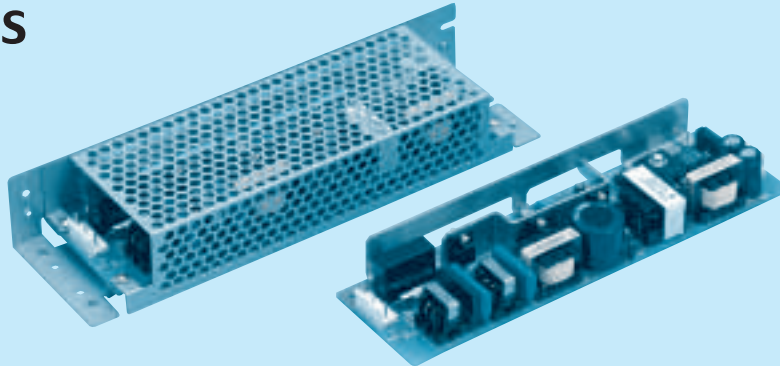


Recommended Noise Filter  
NAC-06-472

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

- ① Series name  
② Output wattage  
③ Universal input  
④ Output voltage  
⑤ Optional  
C : with Coating  
G : Low leakage current  
J2 : Mini terminal block  
R : with Remote ON/OFF  
S : with Chassis  
SN : with Chassis & cover  
Y : with Potentiometer

| MODEL                 | LEA50F-3R3-Y | LEA50F-5 | LEA50F-9 | LEA50F-12 | LEA50F-15 | LEA50F-18 | LEA50F-24 | LEA50F-24-H   | LEA50F-30 | LEA50F-48 |
|-----------------------|--------------|----------|----------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 33           | 50       | 50.4     | 51.6      | 52.5      | 50.4      | 50.4      | 50.4          | 51        | 52.8      |
| DC OUTPUT             | *5 3.3V 10A  | 5V 10A   | 9V 5.6A  | 12V 4.3A  | 15V 3.5A  | 18V 2.8A  | 24V 2.1A  | 24V 2.1(2.6)A | 30V 1.7A  | 48V 1.1A  |

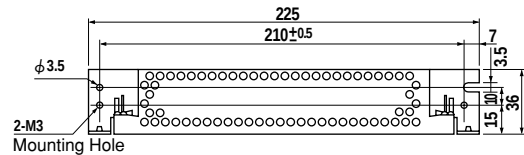
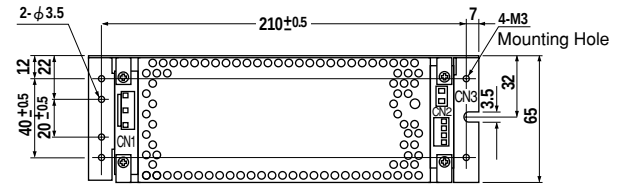
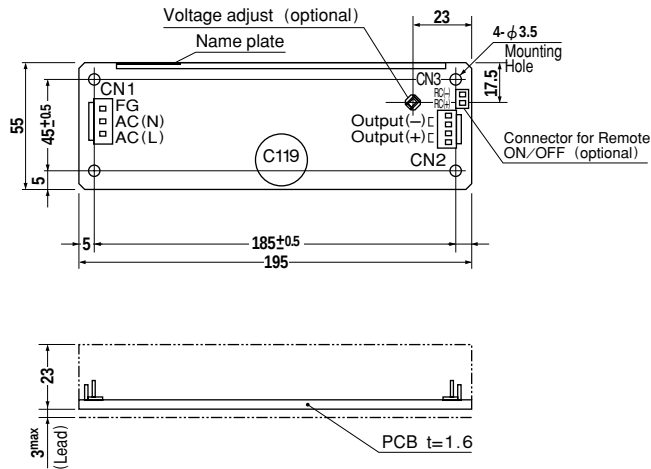
## SPECIFICATIONS

|                                    | MODEL                                            | LEA50F-3R3-Y                                                                                        | LEA50F-5                      | LEA50F-9    | LEA50F-12   | LEA50F-15   | LEA50F-18   | LEA50F-24   | LEA50F-24-H    | LEA50F-30   | LEA50F-48 |        |
|------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|----------------|-------------|-----------|--------|
| INPUT                              | VOLTAGE[V]                                       | AC85 - 264 1ϕ or DC120 - 370                                                                        |                               |             |             |             |             |             |                |             |           |        |
|                                    | CURRENT[A]                                       | ACIN 100V                                                                                           | 0.6                           | 0.7typ      |             |             |             |             |                |             |           |        |
|                                    |                                                  | ACIN 200V                                                                                           | 0.3                           | 0.35typ     |             |             |             |             |                |             |           |        |
|                                    | FREQUENCY[Hz]                                    | 50/60 (47 - 63) or DC                                                                               |                               |             |             |             |             |             |                |             |           |        |
|                                    | EFFICIENCY[%]                                    | ACIN 100V                                                                                           | 70typ                         | 75typ       | 78typ       | 78typ       | 79typ       | 80typ       | 81typ          | 81typ       | 82typ     | 83typ  |
|                                    |                                                  | ACIN 200V                                                                                           | 71typ                         | 77typ       | 80typ       | 80typ       | 81typ       | 82typ       | 83typ          | 83typ       | 84typ     | 85typ  |
|                                    | POWER FACTOR                                     | ACIN 100V                                                                                           | 0.98typ                       | 0.99typ     |             |             |             |             |                |             |           |        |
|                                    |                                                  | ACIN 200V                                                                                           | 0.91typ                       | 0.93typ     |             |             |             |             |                |             |           |        |
| 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]                                       | 3.3                                                                                                 | 5                             | 9           | 12          | 15          | 18          | 24          | 24             | 30          | 48        |        |
|                                    | CURRENT[A]                                       | *1 10                                                                                               | 10                            | 5.6         | 4.3         | 3.5         | 2.8         | 2.1         | 2.1 (Peak 2.6) | 1.7         | 1.1       |        |
|                                    | LINE REGULATION[mV]                              | 20max                                                                                               | 20max                         | 36max       | 48max       | 60max       | 72max       | 96max       | 96max          | 120max      | 192max    |        |
|                                    | LOAD REGULATION[mV]                              | 40max                                                                                               | 40max                         | 100max      | 100max      | 120max      | 120max      | 150max      | 150max         | 180max      | 300max    |        |
|                                    | RIPPLE[mVp-p]                                    | 0 to +50℃ *2                                                                                        | 80max                         | 80max       | 120max      | 120max      | 120max      | 120max      | 120max         | 120max      | 120max    | 150max |
|                                    |                                                  | -10 - 0℃ *2                                                                                         | 140max                        | 140max      | 160max      | 160max      | 160max      | 160max      | 160max         | 160max      | 160max    | 200max |
|                                    | RIPPLE NOISE[mVp-p]                              | 0 to +50℃ *2                                                                                        | 120max                        | 120max      | 150max      | 150max      | 150max      | 150max      | 150max         | 150max      | 150max    | 350max |
|                                    |                                                  | -10 - 0℃ *2                                                                                         | 160max                        | 160max      | 180max      | 180max      | 180max      | 180max      | 180max         | 180max      | 180max    | 400max |
|                                    | TEMPERATURE REGULATION[mV]                       | 0 to +50℃                                                                                           | 50max                         | 50max       | 90max       | 120max      | 150max      | 180max      | 240max         | 240max      | 300max    | 480max |
|                                    |                                                  | -10 to +50℃                                                                                         | 60max                         | 60max       | 120max      | 150max      | 180max      | 200max      | 290max         | 290max      | 360max    | 600max |
|                                    | DRIFT[mV]                                        | *3 20max                                                                                            | 20max                         | 36max       | 48max       | 60max       | 72max       | 96max       | 96max          | 120max      | 192max    |        |
|                                    | START-UP TIME[ms]                                | 500max (ACIN 100V, Io=100%)                                                                         |                               |             |             |             |             |             |                |             |           |        |
|                                    | HOLD-UP TIME[ms]                                 | 20typ (Io=100%)                                                                                     |                               |             |             |             |             |             |                |             |           |        |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | 2.85 - 3.6                                       | Fixed ("Y" which can be adjusted the output is available as optional: ±10%)                         |                               |             |             |             |             |             |                |             |           |        |
| OUTPUT VOLTAGE SETTING[V]          | 3.25 - 3.35                                      | 4.9 - 5.3                                                                                           | 8.6 - 9.4                     | 11.5 - 12.5 | 14.4 - 15.6 | 17.3 - 18.7 | 23.0 - 25.0 | 23.0 - 25.0 | 28.5 - 31.5    | 46.0 - 50.0 |           |        |
| PROTECTION CIRCUIT AND OTHERS      | OVERCURRENT PROTECTION                           | Works over 105% of rating (works over 105% of peak current at option -H) and recovers automatically |                               |             |             |             |             |             |                |             |           |        |
|                                    | OVERVOLTAGE PROTECTION                           | 4.00 - 5.25V                                                                                        | Works at 115 - 140% of rating |             |             |             |             |             |                |             |           |        |
|                                    | OPERATING INDICATION                             | Not provided                                                                                        |                               |             |             |             |             |             |                |             |           |        |
|                                    | REMOTE SENSING                                   | Not provided                                                                                        |                               |             |             |             |             |             |                |             |           |        |
|                                    | REMOTE ON/OFF                                    | Option (Refer to Instruction Manual)                                                                |                               |             |             |             |             |             |                |             |           |        |
| ISOLATION                          | INPUT-OUTPUT · RC                                | *4 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                                   | *4 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)                    |                               |             |             |             |             |             |                |             |           |        |
|                                    | OUTPUT-RC                                        | *4 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, EN60950-1, 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                                 | 55 x 26 x 195mm (W x H x D) /210g max (without chassis and cover)                                   |                               |             |             |             |             |             |                |             |           |        |
|                                    | COOLING METHOD                                   | Convection                                                                                          |                               |             |             |             |             |             |                |             |           |        |

\*1 Peak load for 10sec. or less is acceptable if the total wattage is less than the rated wattage.  
\*2 This is the value that measured on measuring board with capacitor of 22 μF within 150mm from output terminal.  
Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).  
\*3 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.  
\*4 Applicable when remote control (optional) is added.  
\*5 ( ): peak current.  
\* Parallel operation with other model is not possible.  
\* Derating is required when operated with chassis and cover.

## External view



| I / O Connector | Mating Connector | Terminal             |
|-----------------|------------------|----------------------|
| CN1             | B3P5-VH          | VHR-5N               |
|                 |                  | Chain: SVH-21T-P1.1  |
|                 |                  | Loose: BVH-21T-P1.1  |
| CN2             | B4P-VH           | VHR-4N               |
|                 |                  | Chain: SVH-21T-P1.1  |
|                 |                  | Loose: BVH-21T-P1.1  |
| CN3             | B2B-XH-A         | XHP-2                |
|                 |                  | Chain: SXH-001T-P0.6 |
|                 |                  | Loose: BXH-001T-P0.6 |

(Mfr: J.S.T.)

## PIN CONNECTION

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

| Pin No. | Output |
|---------|--------|
| 1       | -V     |
| 2       | -V     |
| 3       | +V     |
| 4       | +V     |

## Optional

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

※Weight: 210g or less

(Without chassis and cover)

※Tolerance: ±1

※Dimensions in mm.

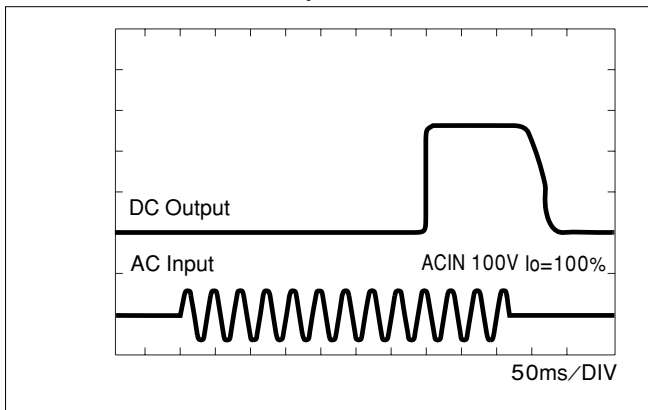
※PCB Material: Glass composite (CEM3)

※Chassis and cover is optional.

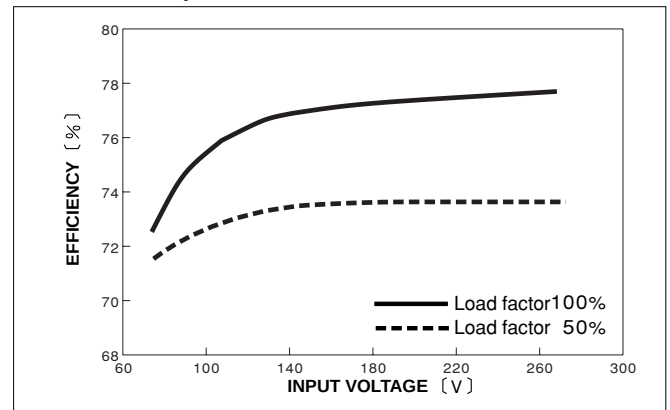
※Mounting torque: 0.6N·m(6.3kgf·cm)max

## Performance data

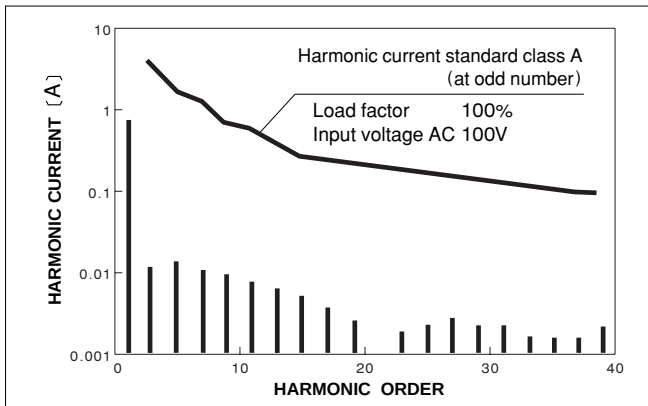
## RISE TIME &amp; FALL TIME (LEA50F-5)



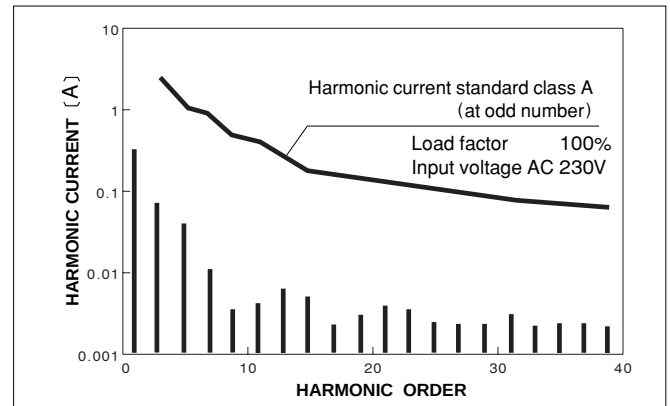
## EFFICIENCY (LEA50F-5)

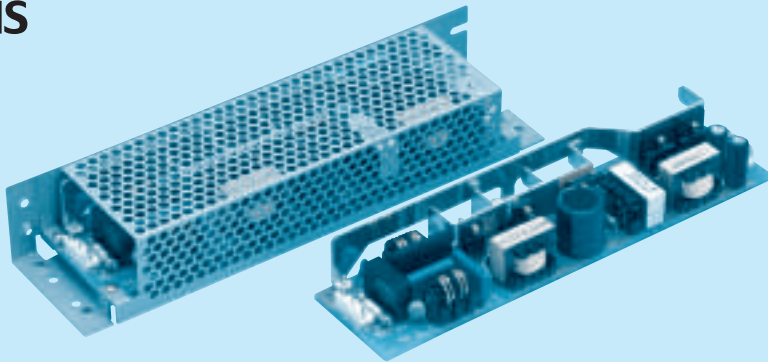


## INPUT HARMONIC CURRENT (LEA50F-5)



## INPUT HARMONIC CURRENT (LEA50F-5)





#### Recommended Noise Filter NAC-06-472



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

- ① Series name  
② Output wattage  
③ Universal input  
④ Output voltage  
⑤ Optional  
C : with Coating  
G : Low leakage current  
J2 : Mini terminal block  
R : with Remote ON/OFF  
S : with Chassis  
SN : with Chassis & cover  
Y : with Potentiometer

| MODEL                 | LEA75F-3R3-Y | LEA75F-5 | LEA75F-9 | LEA75F-12 | LEA75F-15 | LEA75F-18 | LEA75F-24 | LEA75F-24-H   | LEA75F-30 | LEA75F-48 |
|-----------------------|--------------|----------|----------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 49.5         | 75       | 76.5     | 75.6      | 75        | 75.6      | 76.8      | 76.8          | 75        | 76.8      |
| DC OUTPUT             | *5 3.3V 15A  | 5V 15A   | 9V 8.5A  | 12V 6.3A  | 15V 5A    | 18V 4.2A  | 24V 3.2A  | 24V 3.2(3.8)A | 30V 2.5A  | 48V 1.6A  |

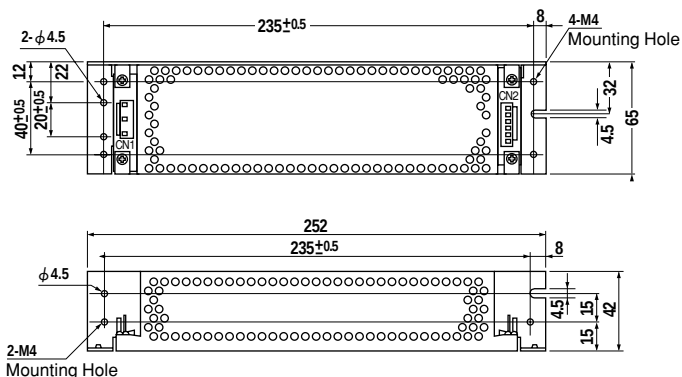
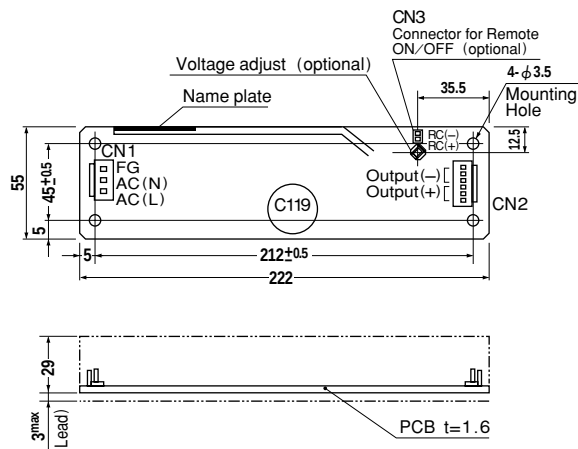
## SPECIFICATIONS

|                               | MODEL                                            | LEA75F-3R3-Y                                                                                        | LEA75F-5                                                                    | LEA75F-9    | LEA75F-12   | LEA75F-15   | LEA75F-18   | LEA75F-24   | LEA75F-24-H    | LEA75F-30   | LEA75F-48 |        |
|-------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|----------------|-------------|-----------|--------|
| INPUT                         | VOLTAGE[V]                                       | AC85 - 264 1ϕ or DC120 - 370                                                                        |                                                                             |             |             |             |             |             |                |             |           |        |
|                               | CURRENT[A]                                       | ACIN 100V                                                                                           | 0.8                                                                         | 1.1typ      |             |             |             |             |                |             |           |        |
|                               |                                                  | ACIN 200V                                                                                           | 0.4                                                                         | 0.55typ     |             |             |             |             |                |             |           |        |
|                               | FREQUENCY[Hz]                                    | 50/60 (47 - 63) or DC                                                                               |                                                                             |             |             |             |             |             |                |             |           |        |
|                               | EFFICIENCY[%]                                    | ACIN 100V                                                                                           | 70typ                                                                       | 75typ       | 78typ       | 78typ       | 79typ       | 81typ       | 82typ          | 82typ       | 84typ     |        |
|                               |                                                  | ACIN 200V                                                                                           | 71typ                                                                       | 77typ       | 80typ       | 80typ       | 81typ       | 83typ       | 84typ          | 84typ       | 86typ     |        |
|                               | POWER FACTOR                                     | ACIN 100V                                                                                           | 0.98typ                                                                     | 0.99typ     |             |             |             |             |                |             |           |        |
|                               |                                                  | ACIN 200V                                                                                           | 0.92typ                                                                     | 0.94typ     |             |             |             |             |                |             |           |        |
| 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]                                       | 3.3                                                                                                 | 5                                                                           | 9           | 12          | 15          | 18          | 24          | 24             | 30          | 48        |        |
|                               | CURRENT[A]                                       | *1 15                                                                                               | 15                                                                          | 8.5         | 6.3         | 5           | 4.2         | 3.2         | 3.2 (Peak 3.8) | 2.5         | 1.6       |        |
|                               | LINE REGULATION[mV]                              | 20max                                                                                               | 20max                                                                       | 36max       | 48max       | 60max       | 72max       | 96max       | 96max          | 120max      | 192max    |        |
|                               | LOAD REGULATION[mV]                              | 40max                                                                                               | 40max                                                                       | 100max      | 100max      | 120max      | 120max      | 150max      | 150max         | 180max      | 300max    |        |
|                               | RIPPLE[mVp-p]                                    | 0 to +50℃ *2                                                                                        | 80max                                                                       | 80max       | 120max      | 120max      | 120max      | 120max      | 120max         | 120max      | 150max    |        |
|                               |                                                  | -10 - 0℃ *2                                                                                         | 140max                                                                      | 140max      | 160max      | 160max      | 160max      | 160max      | 160max         | 160max      | 200max    |        |
|                               | RIPPLE NOISE[mVp-p]                              | 0 to +50℃ *2                                                                                        | 120max                                                                      | 120max      | 150max      | 150max      | 150max      | 150max      | 150max         | 150max      | 350max    |        |
|                               |                                                  | -10 - 0℃ *2                                                                                         | 160max                                                                      | 160max      | 180max      | 180max      | 180max      | 180max      | 180max         | 180max      | 400max    |        |
|                               | TEMPERATURE REGULATION[mV]                       | 0 to +50℃                                                                                           | 50max                                                                       | 50max       | 90max       | 120max      | 150max      | 180max      | 240max         | 240max      | 300max    | 480max |
|                               |                                                  | -10 to +50℃                                                                                         | 60max                                                                       | 60max       | 120max      | 150max      | 180max      | 200max      | 290max         | 290max      | 360max    | 600max |
|                               | DRIFT[mV]                                        | *3 20max                                                                                            | 20max                                                                       | 36max       | 48max       | 60max       | 72max       | 96max       | 96max          | 120max      | 192max    |        |
|                               | START-UP TIME[ms]                                | 500max (ACIN 100V, Io=100%)                                                                         |                                                                             |             |             |             |             |             |                |             |           |        |
|                               | HOLD-UP TIME[ms]                                 | 20typ (Io=100%)                                                                                     |                                                                             |             |             |             |             |             |                |             |           |        |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]               | 2.85 - 3.6                                                                                          | Fixed ("Y" which can be adjusted the output is available as optional: ±10%) |             |             |             |             |             |                |             |           |        |
| OUTPUT VOLTAGE SETTING[V]     | 3.25 - 3.35                                      | 4.9 - 5.3                                                                                           | 8.6 - 9.4                                                                   | 11.5 - 12.5 | 14.4 - 15.6 | 17.3 - 18.7 | 23.0 - 25.0 | 23.0 - 25.0 | 28.5 - 31.5    | 46.0 - 50.0 |           |        |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION                           | Works over 105% of rating (works over 105% of peak current at option -H) and recovers automatically |                                                                             |             |             |             |             |             |                |             |           |        |
|                               | OVERVOLTAGE PROTECTION                           | 4.00 - 5.25V                                                                                        | Works at 115 - 140% of rating                                               |             |             |             |             |             |                |             |           |        |
|                               | OPERATING INDICATION                             | Not provided                                                                                        |                                                                             |             |             |             |             |             |                |             |           |        |
|                               | REMOTE SENSING                                   | Not provided                                                                                        |                                                                             |             |             |             |             |             |                |             |           |        |
| REMOTE ON/OFF                 | Option (Refer to Instruction Manual)             |                                                                                                     |                                                                             |             |             |             |             |             |                |             |           |        |
| ISOLATION                     | INPUT-OUTPUT · RC                                | *4 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                                   | *4 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)                    |                                                                             |             |             |             |             |             |                |             |           |        |
|                               | OUTPUT-RC                                        | *4 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, EN60950-1, 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                                 | 55 x 32 x 222mm (W x H x D) /290g max (without chassis and cover)                                   |                                                                             |             |             |             |             |             |                |             |           |        |
|                               | COOLING METHOD                                   | Convection                                                                                          |                                                                             |             |             |             |             |             |                |             |           |        |

\*1 Peak load for 10 sec. or less is acceptable if the total wattage is less than the rated wattage.  
\*2 This is the value that measured on measuring board with capacitor of 22 μF within 150mm from output terminal.  
Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).  
\*3 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.  
\*4 Applicable when remote control (optional) is added.  
\*5 ( ): peak current.  
\* Parallel operation with other model is not possible.  
\* Derating is required when operated with chassis and cover.

## External view



| I / O Connector | Mating Connector | Terminal             |
|-----------------|------------------|----------------------|
| CN1             | B3P5-VH          | VHR-5N               |
|                 |                  | Chain: SVH-21T-P1.1  |
|                 |                  | Loose: BVH-21T-P1.1  |
| CN2             | B6P-VH           | VHR-6N               |
|                 |                  | Chain: SVH-21T-P1.1  |
|                 |                  | Loose: BVH-21T-P1.1  |
| CN3             | B2B-XH-A         | XHP-2                |
|                 |                  | Chain: SXH-001T-P0.6 |
|                 |                  | Loose: BXH-001T-P0.6 |

(Mfr: J.S.T.)

## 〈PIN CONNECTION〉

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

| Pin No. | Output |
|---------|--------|
| 1~3     | -V     |
| 4~6     | +V     |

## 〈Optional〉

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

※Keep drawing current per pin below 5A for CN2

※Weight: 290g or less  
(Without chassis and cover)

※Tolerance: ±1

※Dimensions in mm.

※PCB Material: Glass composite  
(CEM3)

※Chassis and cover is optional.

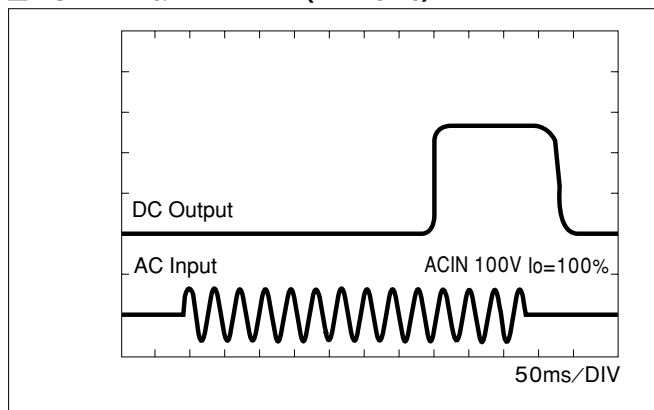
※Chassis and cover is not available  
to remote ON/OFF unit.

※Mounting torque: 1.5N·m(16kgf·cm)max

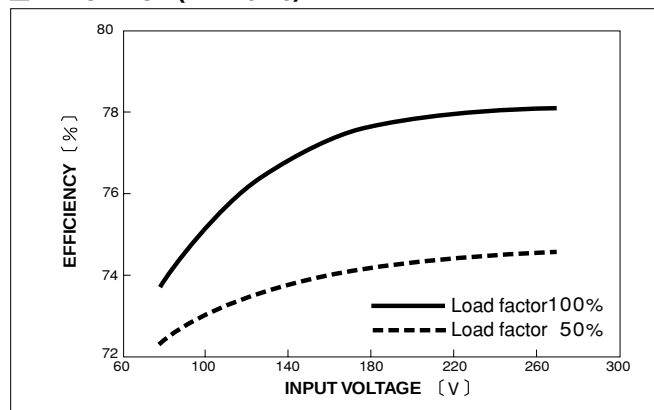
LEA

## Performance data

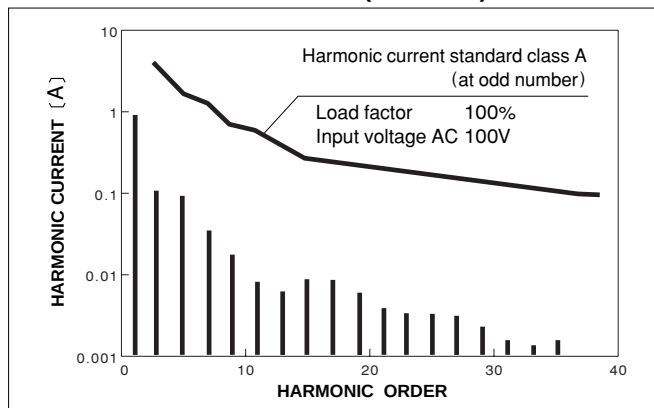
## RISE TIME &amp; FALL TIME (LEA75F-5)



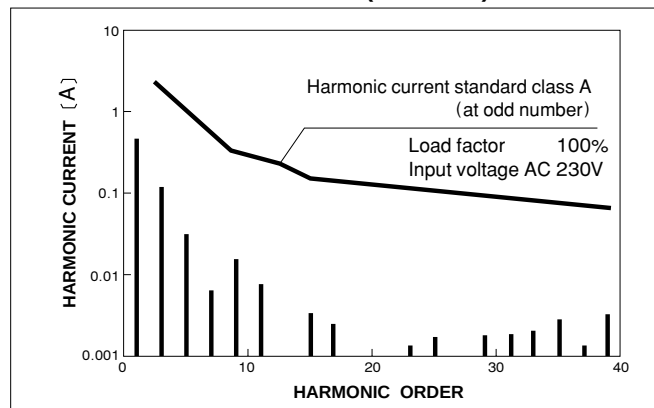
## EFFICIENCY (LEA75F-5)

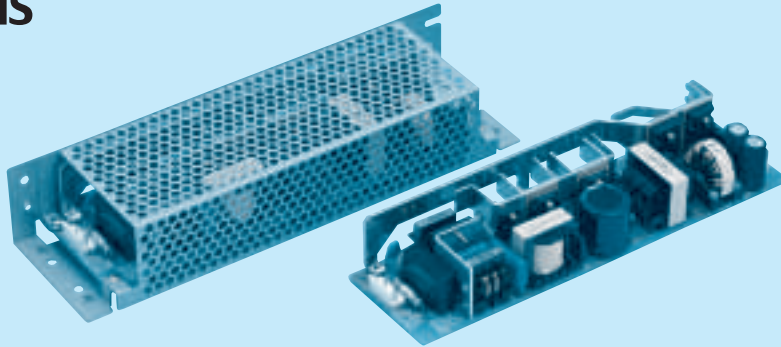


## INPUT HARMONIC CURRENT (LEA75F-5)



## INPUT HARMONIC CURRENT (LEA75F-5)





#### Recommended Noise Filter NAC-06-472



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

- ① Series name  
② Output wattage  
③ Universal input  
④ Output voltage  
⑤ Optional  
C : with Coating  
G : Low leakage current  
J2 : Mini terminal block  
R : with Remote ON/OFF  
S : with Chassis  
SN : with Chassis & cover  
Y : with Potentiometer

| MODEL                 | LEA100F-3R3-Y | LEA100F-5 | LEA100F-9 | LEA100F-12 | LEA100F-15 | LEA100F-18 | LEA100F-24 | LEA100F-24-H  | LEA100F-30 | LEA100F-48 |
|-----------------------|---------------|-----------|-----------|------------|------------|------------|------------|---------------|------------|------------|
| MAX OUTPUT WATTAGE[W] | 66            | 100       | 103.5     | 102        | 100.5      | 100.8      | 103.2      | 103.2         | 105        | 105.6      |
| DC OUTPUT             | *5 3.3V 20A   | 5V 20A    | 9V 11.5A  | 12V 8.5A   | 15V 6.7A   | 18V 5.6A   | 24V 4.3A   | 24V 4.3(5.0)A | 30V 3.5A   | 48V 2.2A   |

## SPECIFICATIONS

|                                    | MODEL                                                                                                               | LEA100F-3R3-Y                                                                                       | LEA100F-5 | LEA100F-9 | LEA100F-12 | LEA100F-15 | LEA100F-18 | LEA100F-24 | LEA100F-24-H   | LEA100F-30 | LEA100F-48 |        |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------|-----------|------------|------------|------------|------------|----------------|------------|------------|--------|
| INPUT                              | VOLTAGE[V]                                                                                                          | AC85 - 264 1ϕ or DC120 - 370                                                                        |           |           |            |            |            |            |                |            |            |        |
|                                    | CURRENT[A]                                                                                                          | ACIN 100V                                                                                           | 1.0       | 1.4typ    |            |            |            |            |                |            |            |        |
|                                    |                                                                                                                     | ACIN 200V                                                                                           | 0.5       | 0.7typ    |            |            |            |            |                |            |            |        |
|                                    | FREQUENCY[Hz]                                                                                                       | 50/60 (47 - 63) or DC                                                                               |           |           |            |            |            |            |                |            |            |        |
|                                    | EFFICIENCY[%]                                                                                                       | ACIN 100V                                                                                           | 71typ     | 75typ     | 79typ      | 79typ      | 79typ      | 81typ      | 81typ          | 81typ      | 82typ      | 83typ  |
|                                    |                                                                                                                     | ACIN 200V                                                                                           | 73typ     | 78typ     | 81typ      | 81typ      | 82typ      | 83typ      | 84typ          | 84typ      | 85typ      | 85typ  |
|                                    | POWER FACTOR                                                                                                        | ACIN 100V                                                                                           | 0.98typ   | 0.99typ   |            |            |            |            |                |            |            |        |
|                                    |                                                                                                                     | ACIN 200V                                                                                           | 0.92typ   | 0.94typ   |            |            |            |            |                |            |            |        |
| 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]                                                                                                          | 3.3                                                                                                 | 5         | 9         | 12         | 15         | 18         | 24         | 24             | 30         | 48         |        |
|                                    | CURRENT[A]                                                                                                          | *1 20                                                                                               | 20        | 11.5      | 8.5        | 6.7        | 5.6        | 4.3        | 4.3 (Peak 5.0) | 3.5        | 2.2        |        |
|                                    | LINE REGULATION[mV]                                                                                                 | 20max                                                                                               | 20max     | 36max     | 48max      | 60max      | 72max      | 96max      | 96max          | 120max     | 192max     |        |
|                                    | LOAD REGULATION[mV]                                                                                                 | 40max                                                                                               | 40max     | 100max    | 100max     | 120max     | 120max     | 150max     | 150max         | 180max     | 300max     |        |
|                                    | RIPPLE[mVp-p]                                                                                                       | 0 to +50℃ *2                                                                                        | 80max     | 80max     | 120max     | 120max     | 120max     | 120max     | 120max         | 120max     | 120max     | 150max |
|                                    |                                                                                                                     | -10 - 0℃ *2                                                                                         | 140max    | 140max    | 160max     | 160max     | 160max     | 160max     | 160max         | 160max     | 160max     | 200max |
|                                    | RIPPLE NOISE[mVp-p]                                                                                                 | 0 to +50℃ *2                                                                                        | 120max    | 120max    | 150max     | 150max     | 150max     | 150max     | 150max         | 150max     | 150max     | 350max |
|                                    |                                                                                                                     | -10 - 0℃ *2                                                                                         | 160max    | 160max    | 180max     | 180max     | 180max     | 180max     | 180max         | 180max     | 180max     | 400max |
|                                    | TEMPERATURE REGULATION[mV]                                                                                          | 0 to +50℃                                                                                           | 50max     | 50max     | 90max      | 120max     | 150max     | 180max     | 240max         | 240max     | 300max     | 480max |
|                                    |                                                                                                                     | -10 to +50℃                                                                                         | 60max     | 60max     | 120max     | 150max     | 180max     | 200max     | 290max         | 290max     | 360max     | 600max |
|                                    | DRIFT[mV]                                                                                                           | *3 20max                                                                                            | 20max     | 36max     | 48max      | 60max      | 72max      | 96max      | 96max          | 120max     | 192max     |        |
|                                    | START-UP TIME[ms]                                                                                                   | 500max (ACIN 100V, Io=100%)                                                                         |           |           |            |            |            |            |                |            |            |        |
|                                    | HOLD-UP TIME[ms]                                                                                                    | 20typ (Io=100%)                                                                                     |           |           |            |            |            |            |                |            |            |        |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | 2.85 - 3.6 Fixed ("Y" which can be adjusted the output is available as optional: ±10%)                              |                                                                                                     |           |           |            |            |            |            |                |            |            |        |
| OUTPUT VOLTAGE SETTING[V]          | 3.25 - 3.35 4.9 - 5.3 8.6 - 9.4 11.5 - 12.5 14.4 - 15.6 17.3 - 18.7 23.0 - 25.0 23.0 - 25.0 28.5 - 31.5 46.0 - 50.0 |                                                                                                     |           |           |            |            |            |            |                |            |            |        |
| PROTECTION CIRCUIT AND OTHERS      | OVERCURRENT PROTECTION                                                                                              | Works over 105% of rating (works over 105% of peak current at option -H) and recovers automatically |           |           |            |            |            |            |                |            |            |        |
|                                    | OVERVOLTAGE PROTECTION                                                                                              | 4.00 - 5.25V / Works at 115 - 140% of rating                                                        |           |           |            |            |            |            |                |            |            |        |
|                                    | OPERATING INDICATION                                                                                                | Not provided                                                                                        |           |           |            |            |            |            |                |            |            |        |
|                                    | REMOTE SENSING                                                                                                      | Not provided                                                                                        |           |           |            |            |            |            |                |            |            |        |
|                                    | REMOTE ON/OFF                                                                                                       | Option (Refer to Instruction Manual)                                                                |           |           |            |            |            |            |                |            |            |        |
| ISOLATION                          | INPUT-OUTPUT · RC                                                                                                   | *4 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                                                                                                      | *4 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)                    |           |           |            |            |            |            |                |            |            |        |
|                                    | OUTPUT-RC                                                                                                           | *4 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, EN60950-1, 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                                                                                                    | 62 X 35 X 222mm (W X H X D) /380g max (without chassis and cover)                                   |           |           |            |            |            |            |                |            |            |        |
|                                    | COOLING METHOD                                                                                                      | Convection                                                                                          |           |           |            |            |            |            |                |            |            |        |

\*1 Peak load for 10 sec. or less is acceptable if the total wattage is less than the rated wattage.

\*2 This is the value that measured on measuring board with capacitor of 22 μF within 150mm from output terminal.

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).

\*3 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.

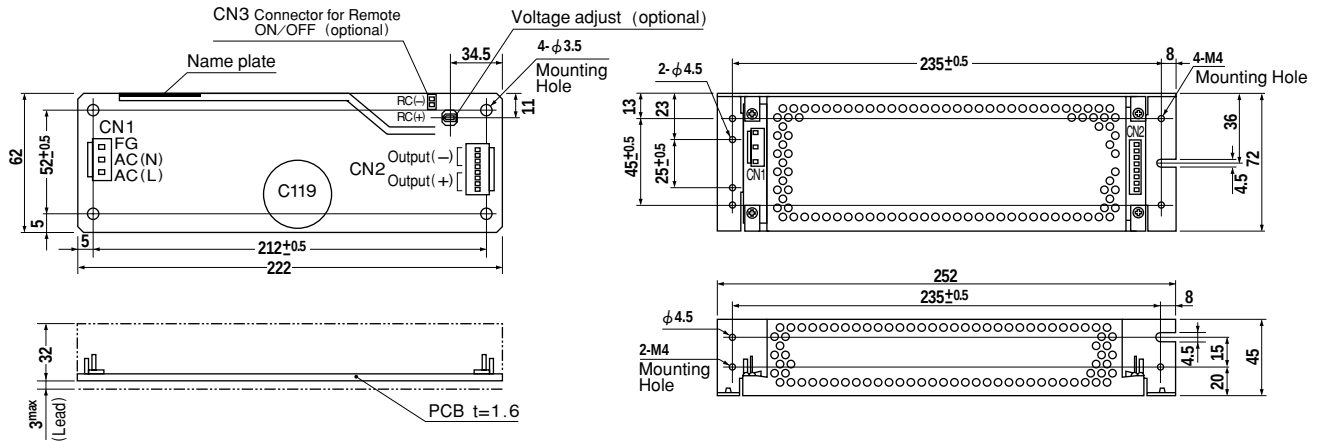
\*4 Applicable when remote control (optional) is added.

\*5 ( ): peak current.

\* Parallel operation with other model is not possible.

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

## External view



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

(Mfr: J.S.T.)

## PIN CONNECTION

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

※Keep drawing current per pin below 5A for CN2

| Pin No. | Output |
|---------|--------|
| 1~4     | -V     |
| 5~8     | +V     |

## Optional

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

※Weight: 380g or less

(Without chassis and cover)

※Tolerance:  $\pm 1$ 

※Dimensions in mm.

※PCB Material: Glass composite (CEM3)

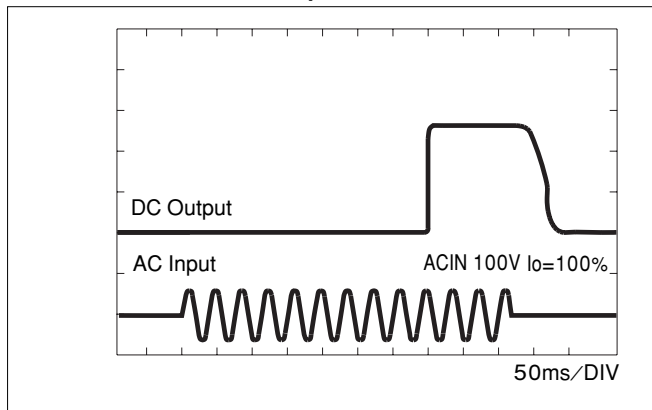
※Chassis and cover is optional.

※Chassis and cover is not available to remote ON/OFF unit.

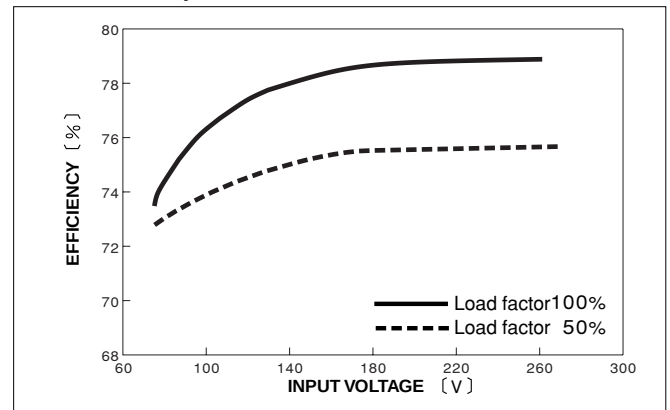
※Mounting torque: 1.5N·m (16kgf·cm) max

## Performance data

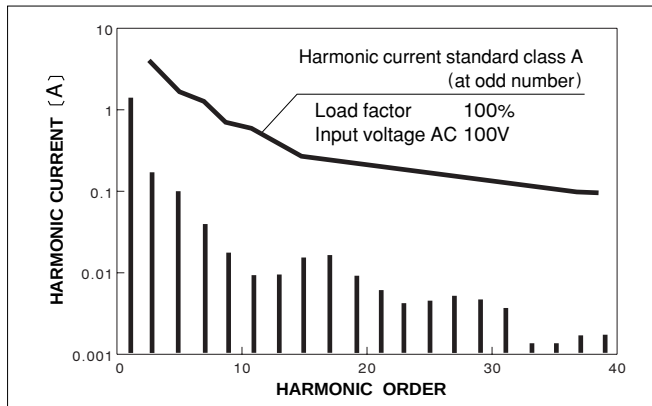
## RISE TIME &amp; FALL TIME (LEA100F-5)



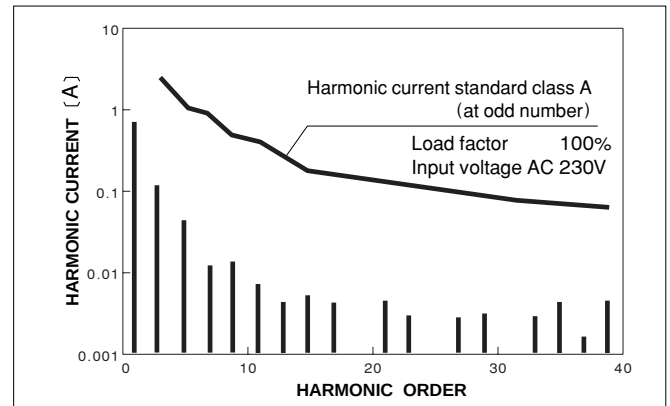
## EFFICIENCY (LEA100F-5)

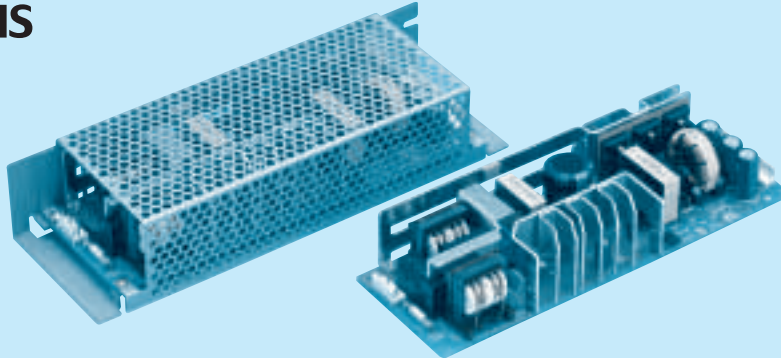


## INPUT HARMONIC CURRENT (LEA100F-5)



## INPUT HARMONIC CURRENT (LEA100F-5)



Recommended Noise Filter  
NAC-06-472

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

- ① Series name  
② Output wattage  
③ Universal input  
④ Output voltage  
⑤ Optional  
C : with Coating  
G : Low leakage current  
J2 : Mini terminal block  
R : with Remote ON/OFF  
S : with Chassis  
SN : with Chassis & cover  
Y : with Potentiometer

| MODEL                 | LEA150F-3R3-Y | LEA150F-5 | LEA150F-9 | LEA150F-12 | LEA150F-15 | LEA150F-18 | LEA150F-24 | LEA150F-24-H  | LEA150F-30 | LEA150F-48 |
|-----------------------|---------------|-----------|-----------|------------|------------|------------|------------|---------------|------------|------------|
| MAX OUTPUT WATTAGE[W] | 99            | 150       | 153       | 150        | 150        | 153        | 151.2      | 151.2         | 150        | 153.6      |
| DC OUTPUT             | *5 3.3V 30A   | 5V 30A    | 9V 17A    | 12V 12.5A  | 15V 10A    | 18V 8.5A   | 24V 6.3A   | 24V 6.3(7.5)A | 30V 5A     | 48V 3.2A   |

## SPECIFICATIONS

|                                    | MODEL                                                                                                                                          | LEA150F-3R3-Y                                                                                       | LEA150F-5 | LEA150F-9 | LEA150F-12 | LEA150F-15 | LEA150F-18 | LEA150F-24 | LEA150F-24-H   | LEA150F-30 | LEA150F-48 |        |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------|-----------|------------|------------|------------|------------|----------------|------------|------------|--------|
| INPUT                              | VOLTAGE[V]                                                                                                                                     | AC85 - 264 1ϕ or DC120 - 370                                                                        |           |           |            |            |            |            |                |            |            |        |
|                                    | CURRENT[A]                                                                                                                                     | ACIN 100V                                                                                           | 1.4       | 2.0typ    |            |            |            |            |                |            |            |        |
|                                    |                                                                                                                                                | ACIN 200V                                                                                           | 0.7       | 1.0typ    |            |            |            |            |                |            |            |        |
|                                    | FREQUENCY[Hz]                                                                                                                                  | 50/60 (47 - 63) or DC                                                                               |           |           |            |            |            |            |                |            |            |        |
|                                    | EFFICIENCY[%]                                                                                                                                  | ACIN 100V                                                                                           | 71typ     | 76typ     | 79typ      | 78typ      | 80typ      | 81typ      | 81typ          | 81typ      | 84typ      | 84typ  |
|                                    |                                                                                                                                                | ACIN 200V                                                                                           | 74typ     | 79typ     | 82typ      | 81typ      | 83typ      | 84typ      | 84typ          | 84typ      | 87typ      | 87typ  |
|                                    | POWER FACTOR                                                                                                                                   | ACIN 100V                                                                                           | 0.98typ   | 0.99typ   |            |            |            |            |                |            |            |        |
|                                    |                                                                                                                                                | ACIN 200V                                                                                           | 0.91typ   | 0.94typ   |            |            |            |            |                |            |            |        |
| 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]                                                                                                                                     | 3.3                                                                                                 | 5         | 9         | 12         | 15         | 18         | 24         | 24             | 30         | 48         |        |
|                                    | CURRENT[A]                                                                                                                                     | *1 30                                                                                               | 30        | 17        | 12.5       | 10         | 8.5        | 6.3        | 6.3 (Peak 7.5) | 5          | 3.2        |        |
|                                    | LINE REGULATION[mV]                                                                                                                            | 20max                                                                                               | 20max     | 36max     | 48max      | 60max      | 72max      | 96max      | 96max          | 120max     | 192max     |        |
|                                    | LOAD REGULATION[mV]                                                                                                                            | 40max                                                                                               | 40max     | 100max    | 100max     | 120max     | 120max     | 150max     | 150max         | 180max     | 300max     |        |
|                                    | RIPPLE[mVp-p]                                                                                                                                  | 0 to +50℃ *2                                                                                        | 80max     | 80max     | 120max     | 120max     | 120max     | 120max     | 120max         | 120max     | 120max     | 150max |
|                                    |                                                                                                                                                | -10 - 0℃ *2                                                                                         | 140max    | 140max    | 160max     | 160max     | 160max     | 160max     | 160max         | 160max     | 160max     | 200max |
|                                    | RIPPLE NOISE[mVp-p]                                                                                                                            | 0 to +50℃ *2                                                                                        | 120max    | 120max    | 150max     | 150max     | 150max     | 150max     | 150max         | 150max     | 150max     | 350max |
|                                    |                                                                                                                                                | -10 - 0℃ *2                                                                                         | 160max    | 160max    | 180max     | 180max     | 180max     | 180max     | 180max         | 180max     | 180max     | 400max |
|                                    | TEMPERATURE REGULATION[mV]                                                                                                                     | 0 to +50℃                                                                                           | 50max     | 50max     | 90max      | 120max     | 150max     | 180max     | 240max         | 240max     | 300max     | 480max |
|                                    |                                                                                                                                                | -10 to +50℃                                                                                         | 60max     | 60max     | 120max     | 150max     | 180max     | 200max     | 290max         | 290max     | 360max     | 600max |
|                                    | DRIFT[mV]                                                                                                                                      | *3 20max                                                                                            | 20max     | 36max     | 48max      | 60max      | 72max      | 96max      | 96max          | 120max     | 192max     |        |
|                                    | START-UP TIME[ms]                                                                                                                              | 500max (ACIN 100V, Io=100%)                                                                         |           |           |            |            |            |            |                |            |            |        |
| HOLD-UP TIME[ms]                   | 20typ (Io=100%)                                                                                                                                |                                                                                                     |           |           |            |            |            |            |                |            |            |        |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | 2.85 - 3.6    Fixed ("Y"which can be adjusted the output is available as optional: ±10%)                                                       |                                                                                                     |           |           |            |            |            |            |                |            |            |        |
| OUTPUT VOLTAGE SETTING[V]          | 3.25 - 3.35    4.9 - 5.3    8.6 - 9.4    11.5 - 12.5    14.4 - 15.6    17.3 - 18.7    23.0 - 25.0    23.0 - 25.0    28.5 - 31.5    46.0 - 50.0 |                                                                                                     |           |           |            |            |            |            |                |            |            |        |
| PROTECTION CIRCUIT AND OTHERS      | OVERCURRENT PROTECTION                                                                                                                         | Works over 105% of rating (works over 105% of peak current at option -H) and recovers automatically |           |           |            |            |            |            |                |            |            |        |
|                                    | OVERVOLTAGE PROTECTION                                                                                                                         | 4.00 - 5.25V    Works at 115 - 140% of rating                                                       |           |           |            |            |            |            |                |            |            |        |
|                                    | OPERATING INDICATION                                                                                                                           | Not provided                                                                                        |           |           |            |            |            |            |                |            |            |        |
|                                    | REMOTE SENSING                                                                                                                                 | Not provided                                                                                        |           |           |            |            |            |            |                |            |            |        |
| REMOTE ON/OFF                      | Option (Refer to Instruction Manual)                                                                                                           |                                                                                                     |           |           |            |            |            |            |                |            |            |        |
| ISOLATION                          | INPUT-OUTPUT · RC                                                                                                                              | *4 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                                                                                                                                 | *4 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)                    |           |           |            |            |            |            |                |            |            |        |
|                                    | OUTPUT-RC                                                                                                                                      | *4 AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)                    |           |           |            |            |            |            |                |            |            |        |
| ENVIRONMENT                        | OPERATING TEMP.,HUMID.AND ALTITUDE                                                                                                             | -10 to +60℃, 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, EN60950-1, 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 40 x 222mm (W x H x D) /500g max (without chassis and cover)                                   |           |           |            |            |            |            |                |            |            |        |
|                                    | COOLING METHOD                                                                                                                                 | Convection                                                                                          |           |           |            |            |            |            |                |            |            |        |

\*1 Peak load for 10 sec. or less is acceptable if the total wattage is less than the rated wattage.

\*2 This is the value that measured on measuring board with capacitor of 22 μF within 150mm from output terminal.  
Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).

\*3 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.

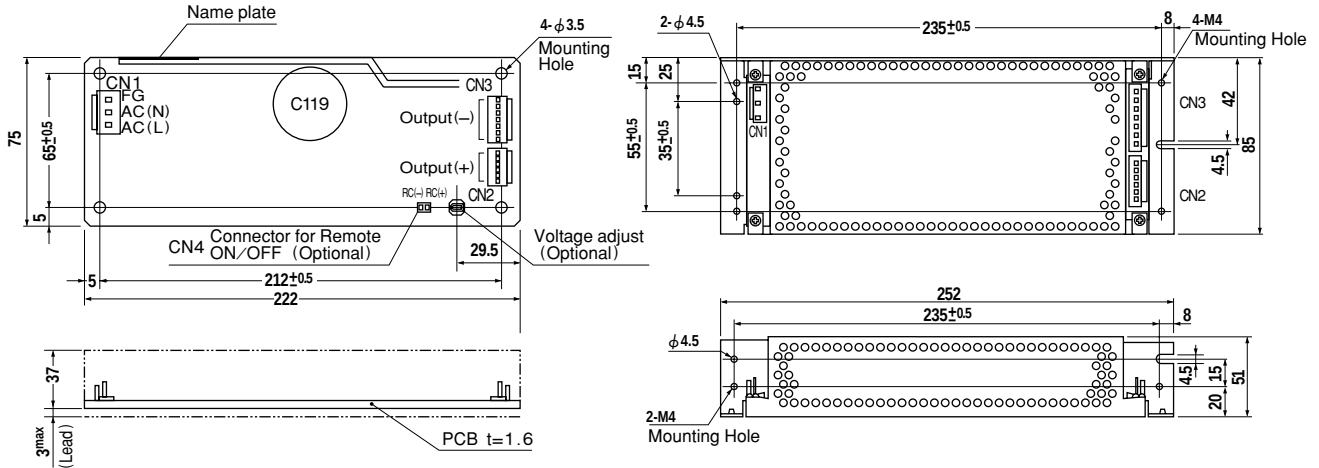
\*4 Applicable when remote control (optional) is added.

\*5 ( ): peak current.

\* Parallel operation with other model is not possible.

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

## External view



| I / O Connector | Mating Connector | Terminal             |
|-----------------|------------------|----------------------|
| CN1             | B3P5-VH          | VHR-5N               |
|                 |                  | Chain: SVH-21T-P1.1  |
|                 |                  | Loose: BVH-21T-P1.1  |
| CN2             | B6P-VH           | VHR-6N               |
|                 |                  | Chain: SVH-21T-P1.1  |
|                 |                  | Loose: BVH-21T-P1.1  |
| CN3             | B7P-VH           | VHR-7N               |
|                 |                  | Chain: SVH-21T-P1.1  |
|                 |                  | Loose: BVH-21T-P1.1  |
| CN4             | B2B-XH-A         | XHP-2                |
|                 |                  | Chain: SXH-001T-P0.6 |
|                 |                  | Loose: BXH-001T-P0.6 |

(Mfr: J.S.T.)

## 〈PIN CONNECTION〉

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

※Keep drawing current per pin below 5A for CN2, CN3

## 〈Optional〉

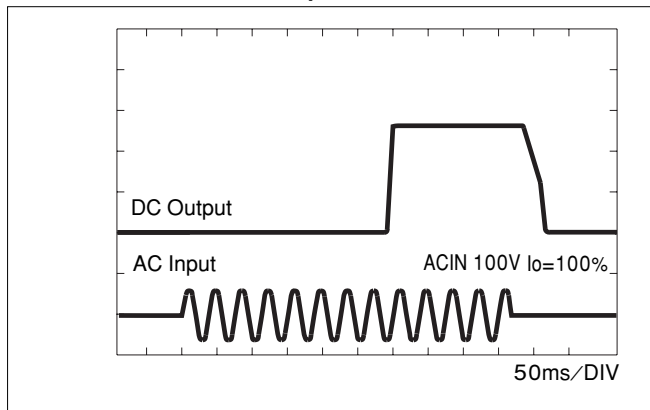
| Pin No. | Remote ON/OFF |
|---------|---------------|
| 1       | RC(+)         |
| 2       | RC(-)         |

- ※Weight: 500g or less (Without chassis and cover)
- ※Tolerance:  $\pm 1$
- ※Dimensions in mm.
- ※PCB Material: Glass composite (CEM3)
- ※Chassis and cover is optional.
- ※Chassis and cover is not available to remote ON/OFF unit.
- ※Mounting torque: 1.5N·m(16kgf·cm)max

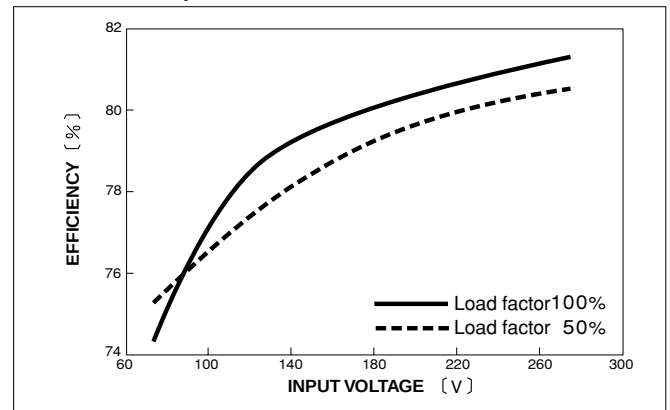
LEA

## Performance data

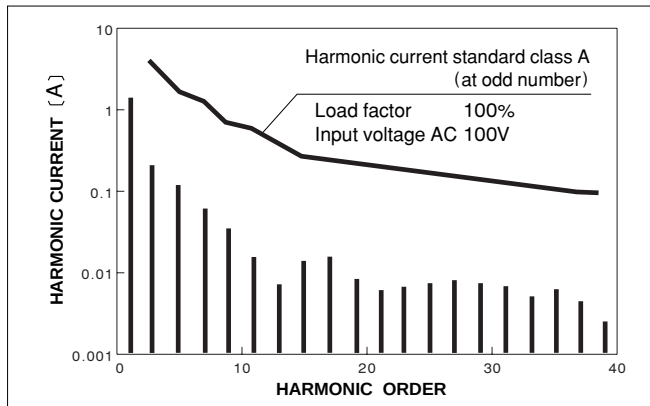
## RISE TIME &amp; FALL TIME (LEA150F-5)



## EFFICIENCY (LEA150F-5)



## INPUT HARMONIC CURRENT (LEA150F-5)



## INPUT HARMONIC CURRENT (LEA150F-5)

