

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

| 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 | | |
|------------|------------------------------------|---|---|--------------------|---------------------------|--|--|
| | VOLTAGE[V] | | AC85 - 264 1 ϕ or DC 120 - 370 | · | | | |
| | | ACIN 100V | 1.4typ (lo=100%) | | | | |
| INPUT | CURRENT[A] | ACIN 200V | 0.7typ (lo=100%) | | | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 63) or DC | | | | |
| | | ACIN 100V | 81typ (lo=100%) | 82typ (lo=100%) | 83typ (Io=100%) | | |
| | EFFICIENCY[%] | ACIN 200V | 84typ (lo=100%) | 85typ (lo=100%) | 85typ (Io=100%) | | |
| | POWER FACTOR | ACIN 100V | 0.98typ (lo=100%) | | | | |
| | | ACIN 200V | 0.93typ (lo=100%) | | | | |
| | | ACIN 100V | 15typ (lo=100%) (At cold start) (Ta=25°C) | | | | |
| | INRUSH CURRENT[A] | ACIN 200V | 30typ (lo=100%) (At cold start) (Ta=25°C) | | | | |
| | LEAKAGE CURRENT[r | mA] | 0.75max (60Hz, According to IEC60950 a | nd DEN-AN) | | | |
| | VOLTAGE[V] | | +24 | +36 | +48 | | |
| | CURRENT[A] | *2 | 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[m] | V] | 48max | 48max | 48max | | |
| | LOAD REGULATION[m | ηV] | 76max | 90max | 150max | | |
| | | 0 to +50℃ *3 | 120max | 120max | 150max | | |
| | RIPPLE[mVp-p] | -10 - 0°C *3 | 160max | 160max | 300max | | |
| | RIPPLE NOISE[mVp-p] | 0 to +50℃ *3 | 150max | 150max | 250max | | |
| UTPUT | RIPPLE NOISE[mvp-p] | -10 - 0°C *3 | 180max | 180max | 350max | | |
| | | 0 to +50℃ | 120max | 150max | 240max | | |
| | TEMPERATURE REGULATION[mV] | -10 to +50°C | 145max | 180max | 300max | | |
| | DRIFT[mV] | *4 | 48max | 48max | 48max | | |
| | START-UP TIME[ms] | | 500max (ACIN 100V, lo=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 | | |
| ROTECTION | OVERCURRENT PROT | ECTION | Works over 101% of peak current and recovers automatically | | | | |
| IRCUIT AND | OVERVOLTAGE PROTECTION | | Works at 115 - 140% of rating | | | | |
| THERS | REMOTE ON/OFF | | Option (Refer to Instruction Manual) | | | | |
| | INPUT-OUTPUT · RC | *5 | AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) | | | | |
| OLATION | INPUT-FG | | AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) | | | | |
| SOLATION | 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) | | | | |
| | OPERATING TEMP.,HUMID.AND | ALTITUDE | -10 to +70°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3.000m (10.000feet) max | | | | |
| VIRONMENT | STORAGE TEMP.,HUMID.AND | ALTITUDE | -20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max | | | | |
| VIRONMENT | VIBRATION | | 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis | | | | |
| | IMPACT | | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis | | | | |
| AFETY AND | AGENCY APPROVALS | | UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60065, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input) | | | | |
| IOISE | CONDUCTED NOISE | | Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B | | | | |
| EGULATIONS | HARMONIC ATTENUAT | TOR | Complies with IEC61000-3-2 *7 | | | | |
| THERE | CASE SIZE/WEIGHT | IT 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) | | | assis & cover : 650g max) | | |
| THERS | 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.

*2

This is the value that measured on measuring board with capacitor of 22 µ F within 150mm *3 from output terminal.Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101). Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, *4

*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. *

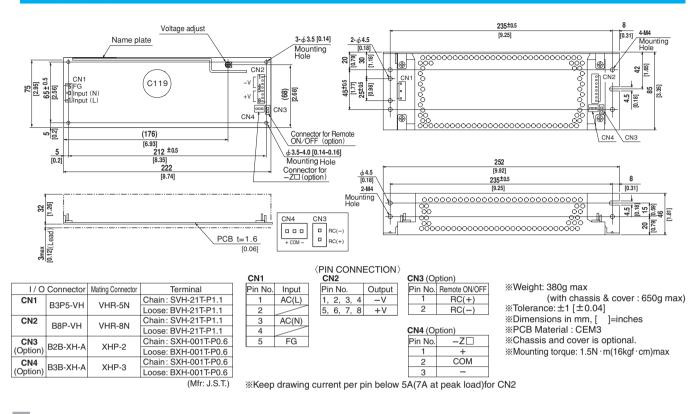
Parallel operation with other model is not possible.

Derating is required when operated with chassis and cover. A sound may occur from power supply at peak loading. *

with the input voltage held constant at the rated input/output.

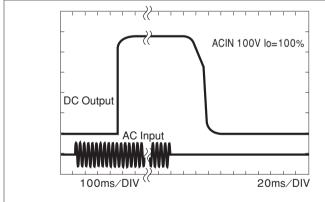
LEP100F | COSEL

External view

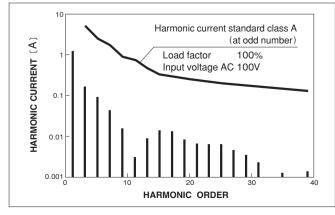


Performance data

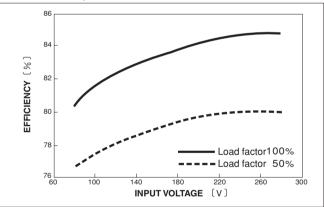
RISE TIME & FALL TIME (LEP100F-24)



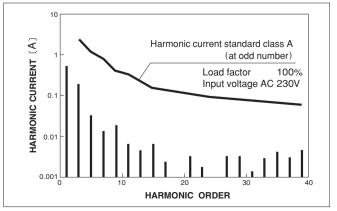
■INPUT HARMONIC CURRENT (LEP100F-24)

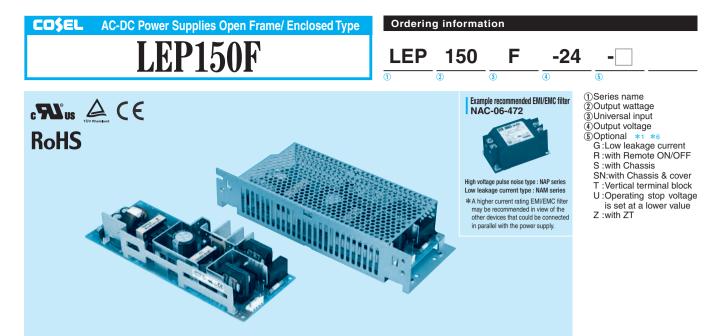


EFFICIENCY (LEP100F-24)



■INPUT HARMONIC CURRENT (LEP100F-24)





*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

| 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 | | |
|------------|--|--|--|---|-----------------------------|--|--|
| | VOLTAGE[V] | | AC85 - 264 1 ϕ or DC 120 - 370 | | | | |
| | ACIN 100V | | 2.0typ (lo=100%) | | | | |
| INPUT | CURRENT[A] | ACIN 200V | 1.0typ (lo=100%) | | | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 63) or DC | | | | |
| | | ACIN 100V | 82typ (lo=100%) | 83typ (lo=100%) | 84typ (lo=100%) | | |
| | EFFICIENCY[%] | ACIN 200V | 85typ (lo=100%) | 86typ (Io=100%) | 87typ (lo=100%) | | |
| | POWER FACTOR | ACIN 100V | 0.98typ (lo=100%) | | | | |
| | | ACIN 200V | 0.93typ (lo=100%) | | | | |
| | INRUSH CURRENT[A] | ACIN 100V | 15typ (lo=100%) (At cold start) (Ta=25°C) | | | | |
| | | ACIN 200V | 30typ (lo=100%) (At cold start) (Ta=25°C) | | | | |
| | LEAKAGE CURRENT[I | nA] | 0.75max (60Hz, According to IEC60950 a | nd DEN-AN) | | | |
| | 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[m | /] | 48max | 48max | 48max | | |
| | LOAD REGULATION[m | nV] | 76max | 90max | 150max | | |
| | | 0 to +45℃ *3 | 120max | 120max | 150max | | |
| | RIPPLE[mVp-p] | -10 - 0°C *3 | 160max | 160max | 300max | | |
| | | 0 to +45℃ *3 | 150max | 150max | 250max | | |
| UTPUT | RIPPLE NOISE[mVp-p] | -10 - 0°C *3 | 180max | 180max | 350max | | |
| | | 0 to +45°C | 120max | 150max | 240max | | |
| | TEMPERATURE REGULATION[mV] | -10 to +45°C | 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] | | | 35.0 - 37.0 | 46.0 - 50.0 | | |
| ROTECTION | | | Works over 101% of peak current and recovers automatically | | | | |
| | OVERVOLTAGE PROTE | | Works at 115 - 140% of rating | | | | |
| THERS | REMOTE ON/OFF | | Option (Refer to Instruction Manual) | | | | |
| | 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) | | | | |
| OLATION | OUTPUT · RC-FG | *5 | | | | | |
| | OUTPUT-RC | *5 | | | | | |
| | OPERATING TEMP, HUMID.AND ALTITUDE -10 to +70°C, 20 - 90% RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000f | | | | | | |
| | STORAGE TEMP., HUMID.AND | | | | ,, ,, ,,,,, . | | |
| VIRONMENT | VIBRATION | | | | nd Z axis | | |
| | IMPACT | 196.1m/s ² (20G). 11ms, once each X, Y and Z axis | | | | | |
| | AGENCY APPROVALS UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60065, EN50178 Complies with DEN | | | ies with DEN-AN and IEC60950-1 (At only AC input) | | | |
| OISE | CONDUCTED NOISE | TED NOISE Complex with FCC-B, CISPR22-B, EN55022-B, VCCI-B | | | | | |
| EGULATIONS | HARMONIC ATTENUA | | | | | | |
| | CASE SIZE/WEIGHT | | | | chassis & cover : 830g max) | | |
| THERS | | | | | | | |

*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.

*2

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

 *5 Applicable when remote control (optional) is added.
*6 Please contact us about safety approvals for the model with option. *7

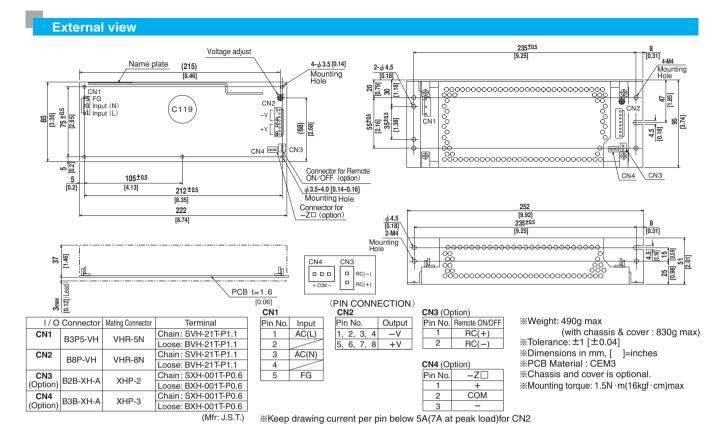
Please contact us about class C. *

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. *

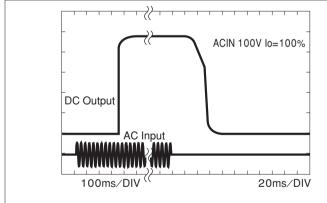
Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, *4 with the input voltage held constant at the rated input/output.



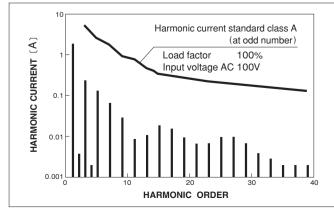


Performance data

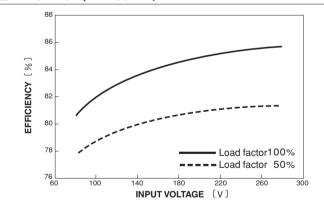
RISE TIME & FALL TIME (LEP150F-24)



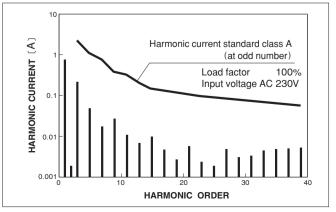
■INPUT HARMONIC CURRENT (LEP150F-24)

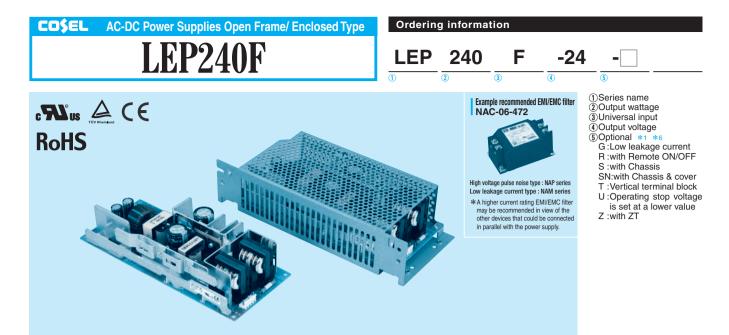


EFFICIENCY (LEP150F-24)



■INPUT HARMONIC CURRENT (LEP150F-24)





*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

| 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 | | |
|--------------------|-----------------------------------|---------------|--|---------------------|-----------------------------------|--|--|
| | VOLTAGE[V] | | AC85 - 264 1 ¢ or DC 120 - 370 | | | | |
| | | ACIN 100V | 1.3.typ (lo=100%) | | | | |
| INPUT | CURRENT[A] | ACIN 200V | 1.7typ (lo=100%) | | | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 63) or DC | | | | |
| | | ACIN 100V | 83typ (lo=100%) | 84typ (lo=100%) | 84typ (Io=100%) | | |
| | EFFICIENCY[%] | ACIN 200V | 86typ (lo=100%) | 87typ (lo=100%) | 87typ (lo=100%) | | |
| | POWER FACTOR | | 0.98typ (lo=100%) | | | | |
| | | | 0.93typ (lo=100%) | | | | |
| | | | 15typ (Io=100%) (More than 3sec.to re-start) | | | | |
| | INRUSH CURRENT[A] | | V 30typ (lo=100%) (More than 3sec.to re-start) | | | | |
| | LEAKAGE CURRENT[r | | 0.75max (60Hz, According to IEC60950 and DEN-AN) | | | | |
| | VOLTAGE[V] | | +24 | +36 | +48 | | |
| | CURRENT[A] | *2 | 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[m] | /1 | 48max | 48max | 48max | | |
| | LOAD REGULATION[mV] | | 76max | 90max | 150max | | |
| | LOAD ITEGOLATION[II | 0 to +40°C *3 | 120max | 120max | 150max | | |
| | RIPPLE[mVp-p] | -10 - 0°C *3 | | 160max | 300max | | |
| | | 0 to +40°C *3 | | 150max | 250max | | |
| JTPUT | RIPPLE NOISE[mVp-p] | -10 - 0°C *3 | | 180max | 350max | | |
| | | 0 to +40℃ | | 150max | 240max | | |
| | TEMPERATURE REGULATION[mV] | -10 to +40℃ | 145max | 180max | 300max | | |
| | DDIETImVI | -10 10 +40 (| 48max | 48max | 48max | | |
| | DRIFT[mV] *4 START-UP TIME[ms] | | 500max (ACIN 100V, Io=100%) | | | | |
| | HOLD-UP TIME[ms] | | 20typ (ACIN 100V, Io=100%) | | | | |
| | | | | 26.4 - 39.6 | 00.0 50.0 | | |
| | OUTPUT VOLTAGE ADJOSTMEN | | | 35.0 - 37.0 | <u>39.6 - 52.8</u> 46.0 - 50.0 | | |
| | | | | | 46.0 - 50.0 | | |
| | | | Works over 101% of peak current and recovers automatically | | | | |
| HERS | OVERVOLTAGE PROTE | CTION | | | | | |
| | REMOTE ON/OFF | | Option (Refer to Instruction Manual) AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) | | | | |
| | INPUT-OUTPUT · RC | *5 | | | | | |
| OLATION | INPUT-FG OUTPUT · RC-FG | | AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) | | | | |
| | | *5 | AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature) | | | | |
| | OUTPUT-RC | *5 | | | | | |
| | OPERATING TEMP.,HUMID.AND | - | | | | | |
| VIRONMENT | STORAGE TEMP.,HUMID.AND | ALIIIUDE | | | | | |
| - | VIBRATION | | 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis | | | | |
| | IMPACT | | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis | | | | |
| FETY AND | AGENCY APPROVALS | | UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60065, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC i | | | | |
| DISE EGULATIONS | CONDUCTED NOISE | | Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B | | | | |
| GOLATIONS | HARMONIC ATTENUAT | TOR | Complies with IEC61000-3-2 *7 | | | | |
| THERS | 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. *2

This is the value that measured on measuring board with capacitor of 22 µ F within 150mm *3 from output terminal.Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101). *4

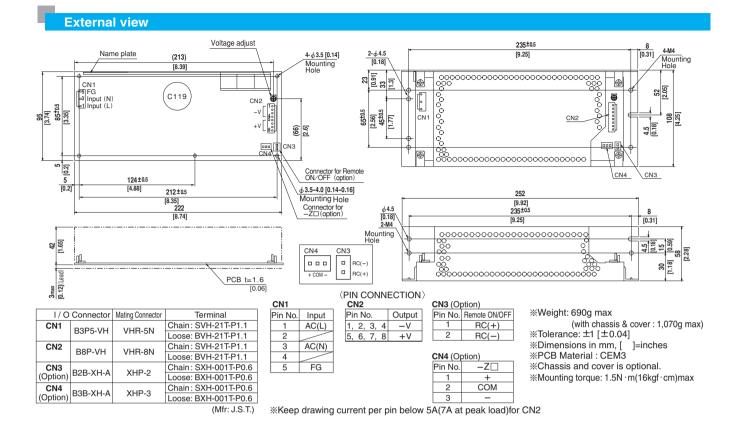
 *5 Applicable when remote control (optional) is added.
*6 Please contact us about safety approvals for the model with option. *7

Please contact us about class C. *

Parallel operation with other model is not possible.

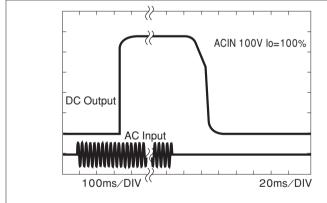
Derating is required when operated with chassis and cover. A sound may occur from power supply at peak loading. *

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.

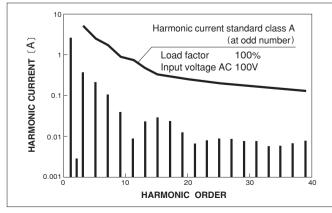


Performance data

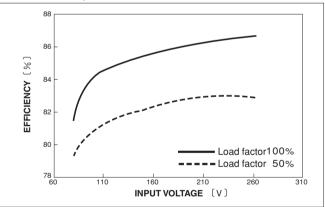
RISE TIME & FALL TIME (LEP240F-24)



■INPUT HARMONIC CURRENT (LEP240F-24)



EFFICIENCY (LEP240F-24)



■INPUT HARMONIC CURRENT (LEP240F-24)

