



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 \*1
- G : Low leakage current
- R : with Remote ON/OFF
- S : with Chassis
- SN : with Chassis & cover
- T : Vertical terminal block
- U : Operating stop voltage is set at a lower value
- Z : with ZT

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

## SPECIFICATIONS

|                                    | MODEL  | LEP150F-24   | LEP150F-36        | LEP150F-48       |                 |
|------------------------------------|--|--|-------------------|------------------|-----------------|
| INPUT                              | VOLTAGE[V]                                       | AC85 - 264 1 φ or DC 120 - 370   |                   |                  |                 |
|                                    | CURRENT[A]                                       | ACIN 100V  | 2.0typ (Io=100%)  |                  |                 |
|                                    |  | ACIN 200V  | 1.0typ (Io=100%)  |                  |                 |
|                                    | FREQUENCY[Hz]                                    | 50/60 (47 - 63) or DC  |                   |                  |                 |
|                                    | EFFICIENCY[%]                                    | ACIN 100V  | 82typ (Io=100%)   | 83typ (Io=100%)  | 84typ (Io=100%) |
|                                    |  | ACIN 200V  | 85typ (Io=100%)   | 86typ (Io=100%)  | 87typ (Io=100%) |
|                                    | POWER FACTOR                                     | ACIN 100V  | 0.98typ (Io=100%) |                  |                 |
| ACIN 200V                          |  | 0.93typ (Io=100%)  |                   |                  |                 |
| INRUSH CURRENT[A]                  | ACIN 100V  | 15typ (Io=100%) (At cold start) (Ta=25°C)  |                   |                  |                 |
|                                    | ACIN 200V  | 30typ (Io=100%) (At cold start) (Ta=25°C)  |                   |                  |                 |
| LEAKAGE CURRENT[mA]                | 0.75max (60Hz, According to IEC60950 and DEN-AN) |  |                   |                  |                 |
| OUTPUT                             | VOLTAGE[V]                                       | +24  | +36               | +48              |                 |
|                                    | CURRENT[A]                                       | *2 0 - 6.3 (Peak 12)   | 0 - 4.2 (Peak 8)  | 0 - 3.2 (Peak 6) |                 |
|                                    | WATTAGE[W]                                       | 151.2 (Peak 288)   | 151.2 (Peak 288)  | 153.6 (Peak 288) |                 |
|                                    | LINE REGULATION[mV]                              | 48max  | 48max             | 48max            |                 |
|                                    | LOAD REGULATION[mV]                              | 76max  | 90max             | 150max           |                 |
|                                    | RIPPLE[mVp-p]                                    | 0 to +45°C *3  | 120max            | 120max           | 150max          |
|                                    |  | -10 - 0°C *3   | 160max            | 160max           | 300max          |
|                                    | RIPPLE NOISE[mVp-p]                              | 0 to +45°C *3  | 150max            | 150max           | 250max          |
|                                    |  | -10 - 0°C *3   | 180max            | 180max           | 350max          |
|                                    | TEMPERATURE REGULATION[mV]                       | 0 to +45°C   | 120max            | 150max           | 240max          |
|                                    |  | -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]          | 23.0 - 25.0                                      | 35.0 - 37.0  | 46.0 - 50.0       |                  |                 |
| PROTECTION CIRCUIT AND OTHERS      | OVERCURRENT PROTECTION                           | Works over 101% of peak current and recovers automatically   |                   |                  |                 |
|                                    | OVERVOLTAGE PROTECTION                           | Works at 115 - 140% of rating  |                   |                  |                 |
|                                    | REMOTE ON/OFF                                    | Option (Refer to Instruction Manual)   |                   |                  |                 |
| ISOLATION                          | INPUT-OUTPUT - RC                                | *5 AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)                      |                   |                  |                 |
|                                    | INPUT-FG   | AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)                         |                   |                  |                 |
|                                    | OUTPUT - RC-FG                                   | *5 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)                       |                   |                  |                 |
|                                    | OUTPUT-RC  | *5 AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)                       |                   |                  |                 |
| ENVIRONMENT                        | OPERATING TEMP., HUMID. AND ALTITUDE             | -10 to +70°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max           |                   |                  |                 |
|                                    | STORAGE TEMP., HUMID. AND ALTITUDE               | -20 to +75°C, 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            |                   |                  |                 |
| SAFETY AND NOISE REGULATIONS       | IMPACT   | 196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis   |                   |                  |                 |
|                                    | AGENCY APPROVALS                                 | UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input) |                   |                  |                 |
|                                    | CE MARKING                                       | Low Voltage Directive, EMC Directive   |                   |                  |                 |
|                                    | CONDUCTED NOISE                                  | Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B  |                   |                  |                 |
| OTHERS                             | HARMONIC ATTENUATOR                              | Complies with IEC61000-3-2   |                   |                  |                 |
|                                    | CASE SIZE/WEIGHT                                 | 85 x 40 x 222mm (W x H x D) /490g max (without chassis and cover)                                      |                   |                  |                 |
|                                    | COOLING METHOD                                   | Convection   |                   |                  |                 |

\*1 Specification is changed at option, refer to Instruction Manual 6.  
 \*2 Peak loading for 10sec. And Duty 35% max, refer to Instruction Manual 5. In detail.  
 \*3 This is the value that measured on measuring board with capacitor of 22 μF within 150mm from output terminal. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).  
 \*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

\*5 Applicable when remote control (optional) is added.  
 \* Parallel operation with other model is not possible.  
 \* Derating is required when operated with chassis and cover.  
 \* A sound may occur from power supply at peak loading.

## External view



| I / O Connector     | Mating Connector | Terminal |
|---------------------|------------------|----------|
| <b>CN1</b>          | B3P5-VH          | VHR-5N   |
| <b>CN2</b>          | B8P-VH           | VHR-8N   |
| <b>CN3 (Option)</b> | B2B-XH-A         | XHP-2    |
| <b>CN4 (Option)</b> | B3B-XH-A         | XHP-3    |

**CN1**

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

**〈PIN CONNECTION〉**

**CN2**

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

**CN3 (Option)**

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

**CN4 (Option)**

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

(Mfr: J.S.T.)

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

※Weight: 490g or less  
(Without chassis and cover)  
※Tolerance: ±1  
※Dimensions in mm.  
※PCB Material : CEM3  
※Chassis and cover is optional.  
※Mounting torque: 1.5N·m(16kgf·cm)max

LEP

## Performance data

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



### EFFICIENCY (LEP150F-24)



### INPUT HARMONIC CURRENT (LEP150F-24)



### INPUT HARMONIC CURRENT (LEP150F-24)



### Distribution:

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#### Как с нами связаться

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