



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 V1 Output voltage
- ⑤ V2 Output voltage
- ⑥ Optional *1
- G : Low leakage current
- R : with Remote ON/OFF
- S : with Chassis
- SN : with Chassis & cover
- T : Vertical terminal block
- Y : with Potentiometer
- Z : with ZT

| MODEL | LEB150F-0512 | LEB150F-0324 | LEB150F-0524 | LEB150F-0530 | LEB150F-0536 |
|-----------|------------------------------------|------------------------------|----------------------------|-----------------------------|-----------------------------|
| DC OUTPUT | V1 +5V 5A V2 +12V 7.5(Peak 14)A | +3.3V 5A +24V 6(Peak 10)A | +5V 5A +24V 6(Peak 10)A | +5V 5A +30V 4.8(Peak 8)A | +5V 5A +36V 4(Peak 6.7)A |

SPECIFICATIONS

| MODEL | LEB150F-0512 | LEB150F-0324 | LEB150F-0524 | LEB150F-0530 | LEB150F-0536 | | | | | | | |
|------------------------------------|--|--|--|------------------|-----------------|-----------------|-----------------|----------------|------------------|----------------|------------------|--------|
| INPUT | VOLTAGE[V] AC85 - 264 1 φ or DC 120 - 370 | | | | | | | | | | | |
| | CURRENT[A] | ACIN 100V | 1.6typ (Io=100%) | 2.0typ (Io=100%) | | | | | | | | |
| | | ACIN 200V | 0.8typ (Io=100%) | 1.0typ (Io=100%) | | | | | | | | |
| | FREQUENCY[Hz] | 50/60 (47 - 63) or DC | | | | | | | | | | |
| | EFFICIENCY[%] | ACIN 100V | 76typ (Io=100%) | 79typ (Io=100%) | 79typ (Io=100%) | 79typ (Io=100%) | | | | | | |
| | | ACIN 200V | 79typ (Io=100%) | 82typ (Io=100%) | 82typ (Io=100%) | 82typ (Io=100%) | | | | | | |
| | POWER FACTOR | ACIN 100V | 0.98typ | 0.99typ | | | | | | | | |
| ACIN 200V | | 0.93typ | | | | | | | | | | |
| 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] | +5 | +12 | +3.3 | +24 | +5 | +24 | +5 | +30 | +5 | +36 | |
| | CURRENT[A] | *2 0 - 5 | 0 - 7.5 (Peak 14) | 0 - 5 | 0 - 6 (Peak 10) | 0 - 5 | 0 - 6 (Peak 10) | 0 - 5 | 0 - 4.8 (Peak 8) | 0 - 5 | 0 - 4 (Peak 6.7) | |
| | TOTAL OUTPUT WATTAGE[W] | *3 115 (Peak 193) | | 150 (Peak 246) | | 150 (Peak 246) | | 150 (Peak 246) | | 150 (Peak 246) | | |
| | LINE REGULATION[mV] | 20max | 48max | 20max | 96max | 20max | 96max | 20max | 120max | 20max | 144max | |
| | LOAD REGULATION[mV] | 40max | 100max | 40max | 150max | 40max | 150max | 40max | 180max | 40max | 180max | |
| | RIPPLE[mVp-p] | 0 to +45°C | 80max | 120max | 80max | 120max | 80max | 120max | 80max | 200max | 80max | 200max |
| | | -10 - 0°C | 140max | 160max | 140max | 160max | 140max | 160max | 140max | 240max | 140max | 240max |
| | RIPPLE NOISE[mVp-p] | 0 to +45°C | 120max | 150max | 120max | 150max | 120max | 150max | 120max | 300max | 120max | 300max |
| | | -10 - 0°C | 160max | 180max | 160max | 180max | 160max | 180max | 160max | 360max | 160max | 360max |
| | TEMPERATURE REGULATION[mV] | 0 to +45°C | 50max | 120max | 50max | 240max | 50max | 240max | 50max | 300max | 50max | 300max |
| | | -10 to +45°C | 60max | 150max | 60max | 290max | 60max | 290max | 60max | 350max | 60max | 350max |
| | DRIFT[mV] | *5 20max | 48max | 20max | 96max | 20max | 96max | 20max | 120max | 20max | 144max | |
| | START-UP TIME[ms] | *6 250max | 500max | 250max | 500max | 250max | 500max | 250max | 500max | 250max | 500max | |
| | HOLD-UP TIME[ms] | *6 40typ | 20typ | 40typ | 20typ | 40typ | 20typ | 40typ | 20typ | 40typ | 20typ | |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | 4.5 - 5.5 | Fixed | 2.85 - 3.60 | Fixed | 4.5 - 5.5 | Fixed | 4.5 - 5.5 | Fixed | 4.5 - 5.5 | Fixed | | |
| OUTPUT VOLTAGE SETTING[V] | — | 11.5 - 12.5 | — | 23.0 - 25.0 | — | 23.0 - 25.0 | — | 28.7 - 31.5 | — | 34.5 - 37.5 | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | V1 | Works over 105% of rating current and recovers automatically | | | | | | | | | |
| | | V2 | Works over 101% of peak current and recovers automatically | | | | | | | | | |
| | OVERVOLTAGE PROTECTION | V1 | Works over 115% of rating, by zener diode clamping | | | | | | | | | |
| | | V2 | Works at 115 - 140% of rating | | | | | | | | | |
| REMOTE ON/OFF | Option (Refer to Instruction Manual) | | | | | | | | | | | |
| ISOLATION | INPUT-OUTPUT - RC | *7 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 | *7 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature) | | | | | | | | | | |
| | OUTPUT-OUTPUT(V1 - RC-V2) | *7 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 ² (2G), 3minutes period, 60minutes each along X, Y and Z axis | | | | | | | | | | |
| SAFETY AND NOISE REGULATIONS | IMPACT | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis | | | | | | | | | | |
| | AGENCY APPROVALS | UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input) | | | | | | | | | | |
| OTHERS | CONDUCTED NOISE | Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B | | | | | | | | | | |
| | HARMONIC ATTENUATOR | Complies with IEC61000-3-2 | | | | | | | | | | |
| OTHERS | CASE SIZE/WEIGHT | 85 x 40 x 222mm (W x H x D) /530g max (without chassis and cover) | | | | | | | | | | |
| | COOLING METHOD | Convection | | | | | | | | | | |

*1 Specification is changed at option, refer to Instruction Manual 5.
 *2 Peak loading for 10sec. And Duty 35% max, refer to Instruction Manual 4. In detail.
 *3 Refer to Instruction Manual 2.2 in detail.
 *4 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).
 *5 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.
 *6 ACIN 100V, Io=100%
 *7 Applicable when remote control (optional) is added.
 Series/Parallel operation is not possible.
 Derating is required when operated with chassis and cover.
 * A sound may occur from power supply at peak loading.