

# LEP100F

LEP 100 F -24 -□

① ② ③ ④ ⑤

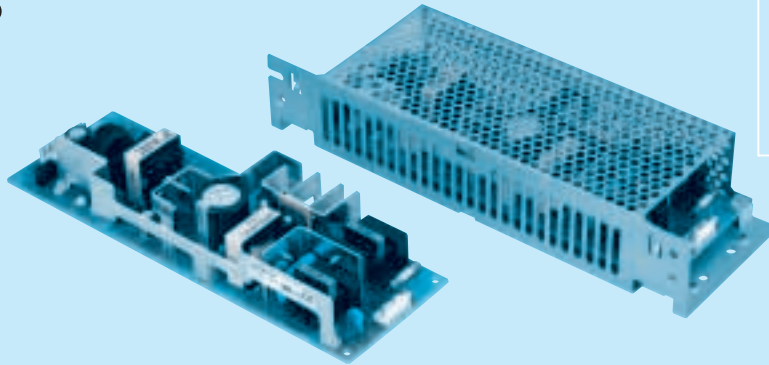


Recommended EMI/EMC Filter  
NAC-06-472



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

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



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

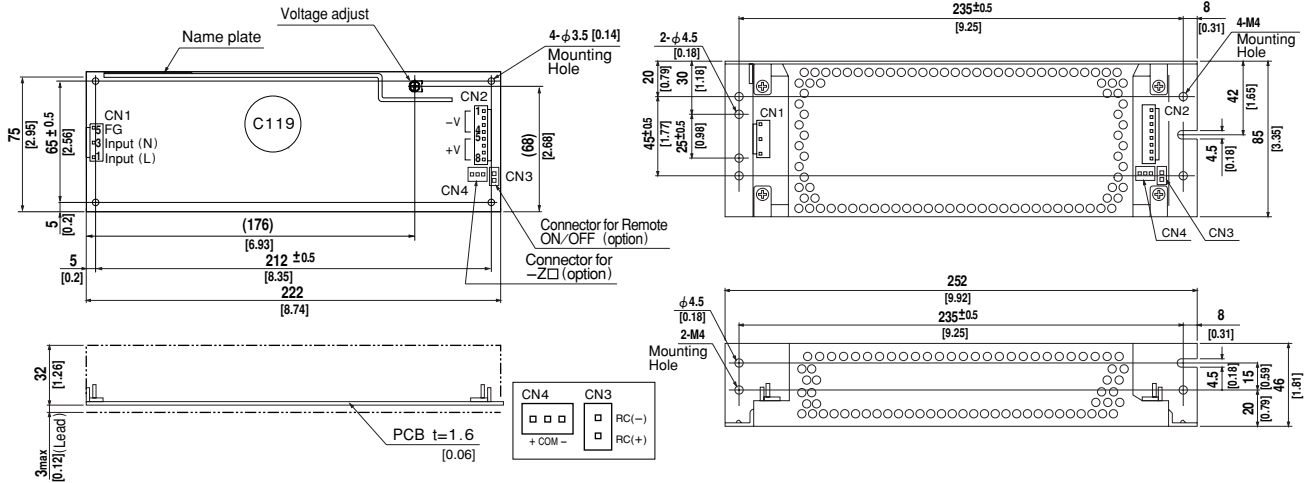
## SPECIFICATIONS

	MODEL	LEP100F-24	LEP100F-36	LEP100F-48	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC 120 - 370			
	CURRENT[A]	ACIN 100V	1.4typ (Io=100%)		
		ACIN 200V	0.7typ (Io=100%)		
	FREQUENCY[Hz]	50/60 (47 - 63) or DC			
	EFFICIENCY[%]	ACIN 100V	81typ (Io=100%)	82typ (Io=100%)	83typ (Io=100%)
		ACIN 200V	84typ (Io=100%)	85typ (Io=100%)	85typ (Io=100%)
	POWER FACTOR	ACIN 100V	0.98typ (Io=100%)		
ACIN 200V		0.93typ (Io=100%)			
INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%) (At cold start) (Ta=25°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 - 4.2 (Peak 7)	0 - 2.8 (Peak 4.7)	0 - 2.1 (Peak 3.5)	
	WATTAGE[W]	100.8 (Peak 168)	100.8 (Peak 169.2)	100.8 (Peak 168)	
	LINE REGULATION[mV]	48max	48max	48max	
	LOAD REGULATION[mV]	76max	90max	150max	
	RIPPLE[mVp-p]	0 to +50°C *3	120max	120max	150max
		-10 - 0°C *3	160max	160max	300max
	RIPPLE NOISE[mVp-p]	0 to +50°C *3	150max	150max	250max
		-10 - 0°C *3	180max	180max	350max
	TEMPERATURE REGULATION[mV]	0 to +50°C	120max	150max	240max
		-10 to +50°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, EN60065, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input)			
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B			
OTHERS	HARMONIC ATTENUATOR	Complies with IEC61000-3-2			
	CASE SIZE/WEIGHT	75 x 35 x 222mm [2.95 x 1.38 x 8.74 inches] (W x H x D) /380g 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.  
 \*6 Please contact us about safety approvals for the model with option.  
 \* 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



LEP

### (PIN CONNECTION)

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	
3	AC(N)
4	
5	FG

CN2	
Pin No.	Output
1, 2, 3, 4	-V
5, 6, 7, 8	+V

CN3 (Option)	
Pin No.	Remote ON/OFF
1	RC(+)
2	RC(-)

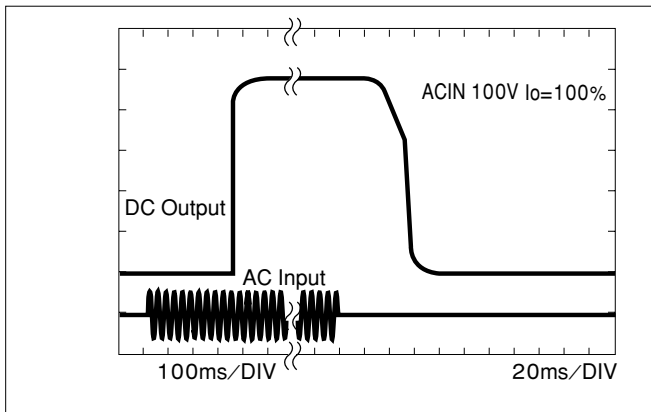
CN4 (Option)	
Pin No.	-Z□
1	+
2	COM
3	-

- ※Weight: 380g max (Without chassis and cover)
- ※Tolerance: ±1 [±0.04]
- ※Dimensions in mm, [ ]=inches
- ※PCB Material : GEM3
- ※Chassis and cover is optional.
- ※Mounting torque: 1.5N·m(16kgf·cm)max

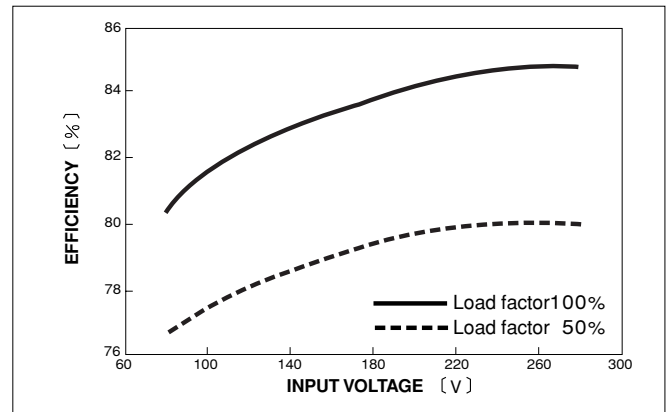
(Mfr: J.S.T.) ※Keep drawing current per pin below 5A(7A at peak load)for CN2

## Performance data

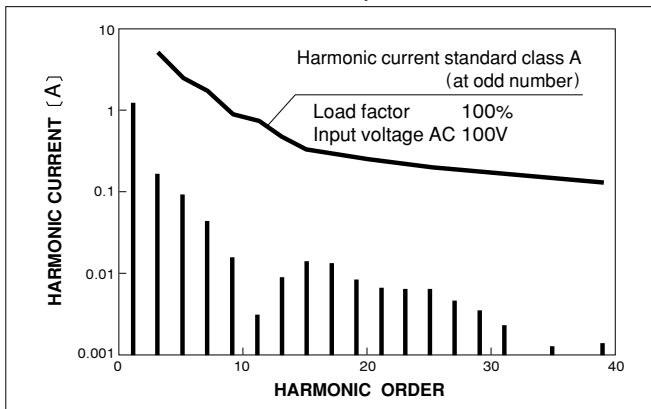
### RISE TIME & FALL TIME (LEP100F-24)



### EFFICIENCY (LEP100F-24)



### INPUT HARMONIC CURRENT (LEP100F-24)



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