

\*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 $\phi$ 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 $\Omega$ 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 <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				
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. \*

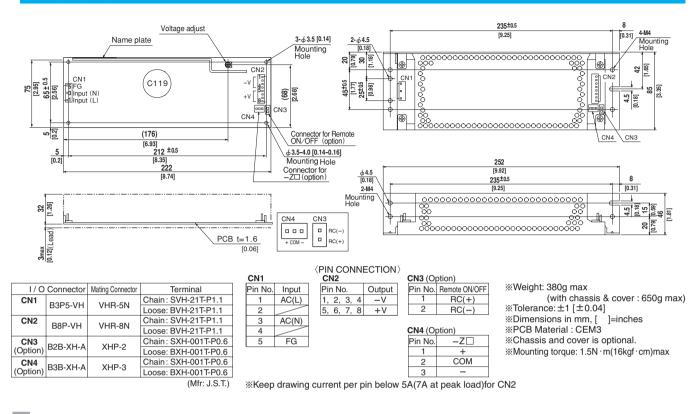
Parallel operation with other model is not possible.

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.

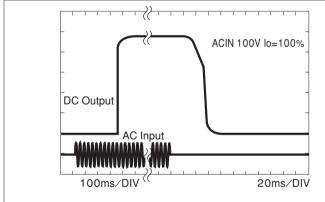
# LEP100F | COSEL

#### **External view**

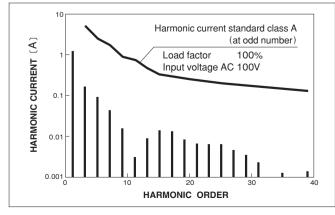


#### Performance data

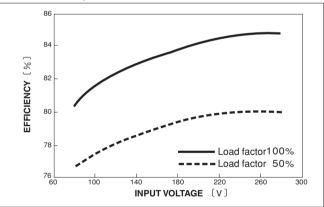
#### RISE TIME & FALL TIME (LEP100F-24)



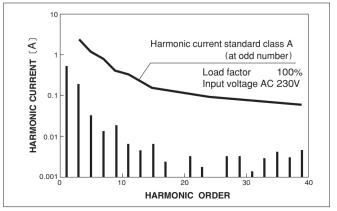
#### ■INPUT HARMONIC CURRENT (LEP100F-24)

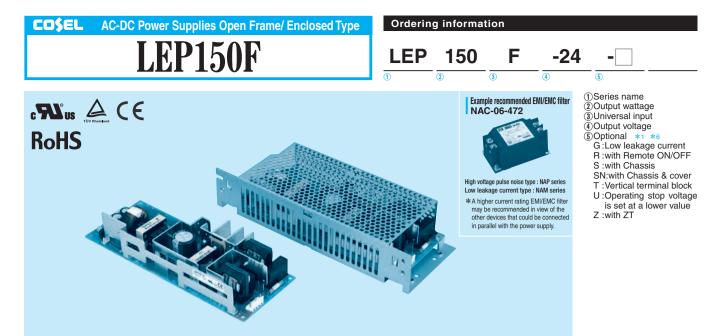


EFFICIENCY (LEP100F-24)



#### ■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 $\phi$ 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 <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			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

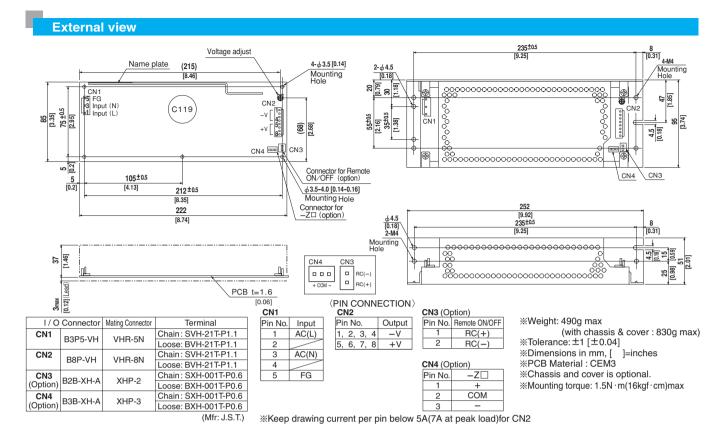
Please contact us about class C. \*

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. \*

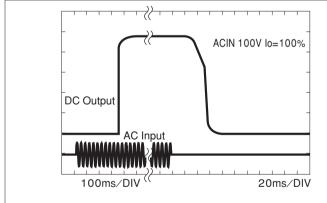
Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, \*4 with the input voltage held constant at the rated input/output.



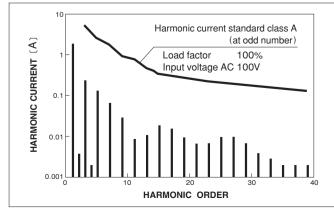


#### Performance data

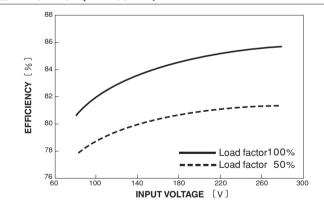
#### RISE TIME & FALL TIME (LEP150F-24)



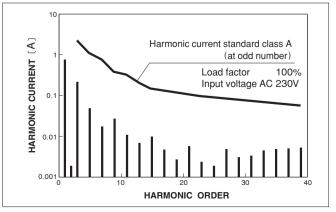
#### ■INPUT HARMONIC CURRENT (LEP150F-24)

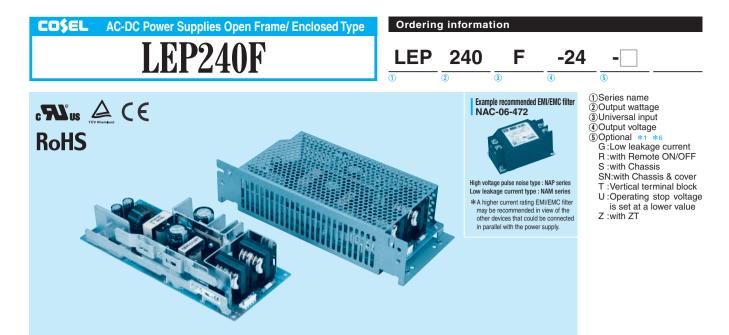


EFFICIENCY (LEP150F-24)



#### ■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 $\Omega$ 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 <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				
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

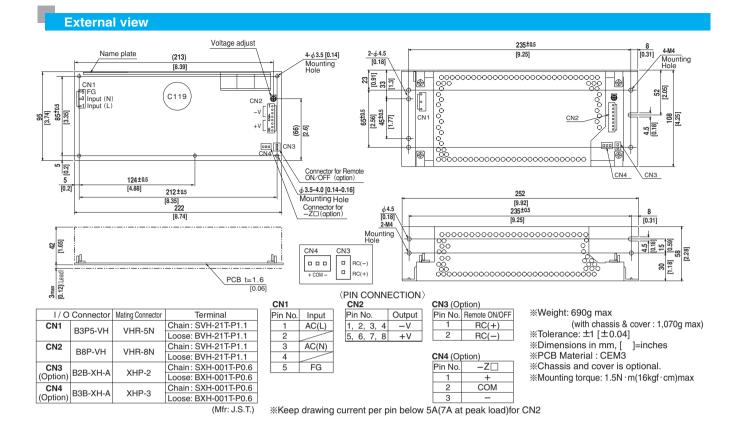
Please contact us about class C. \*

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. \*

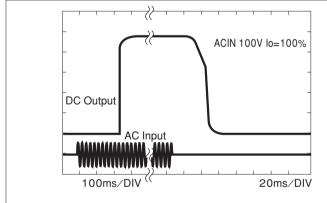
Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

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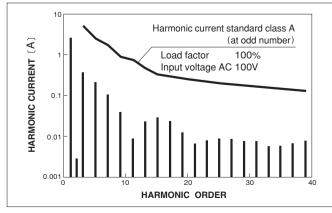


#### Performance data

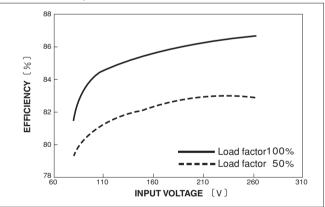
#### RISE TIME & FALL TIME (LEP240F-24)



#### ■INPUT HARMONIC CURRENT (LEP240F-24)



EFFICIENCY (LEP240F-24)



#### ■INPUT HARMONIC CURRENT (LEP240F-24)

