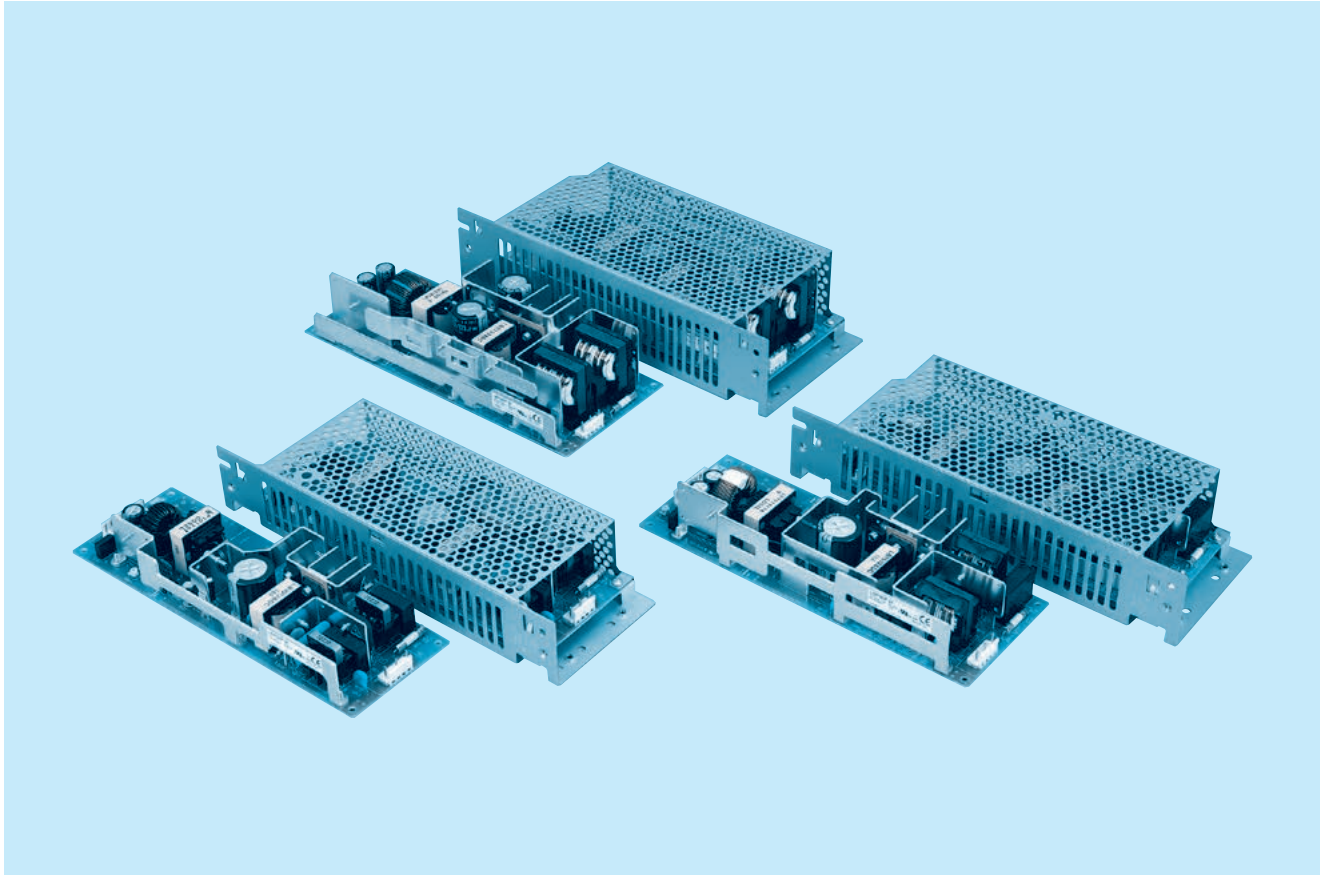




LEP-series



Feature

High power & peak power
Rugged PCB type (CEM)
Harmonic attenuator (Complies with IEC61000-3-2)
Universal input voltage (AC85 - 264V)
Remote ON/OFF (Option)

Safety agency approvals

UL60950-1, C-UL(CSA60950-1) recognized, TÜV approved
Complies with DEN-AN

EMI

Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B

2-year warranty

Optional parts

Chassis and cover, harness (refer to page of option parts)

CE marking

Low Voltage Directive

UKCA marking

Electrical Equipment Safety Regulations
RoHS Regulations

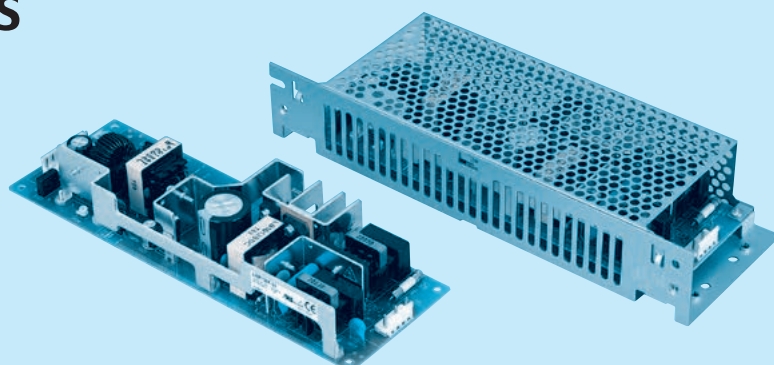
EMS Compliance : EN61204-3, EN61000-6-2

EN55022-B
EN61000-3-2
EN61000-4-2
EN61000-4-3
EN61000-4-4
EN61000-4-5
EN61000-4-6
EN61000-4-8
EN61000-4-11

LEP100F

LEP 100 F -24 -□

① ② ③ ④ ⑤



Example recommended EMI/EMC filter
NAC-06-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
* A higher current rating EMI/EMC filter
may be recommended in view of the
other devices that could be connected
in parallel with the power supply.

- 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

*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	
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℃)			
	ACIN 200V	30typ (Io=100%) (At cold start) (Ta=25℃)			
	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℃ *3	120max	120max	150max
		-10 - 0℃ *3	160max	160max	300max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *3	150max	150max	250max
		-10 - 0℃ *3	180max	180max	350max
	TEMPERATURE REGULATION[mV]	0 to +50℃	120max	150max	240max
		-10 to +50℃	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 50M Ω min (At Room Temperature)			
	INPUT-FG	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)			
	OUTPUT · RC-FG	*5 AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)			
	OUTPUT-RC	*5 AC100V 1minute, Cutoff current = 100mA, DC100V 10M Ω min (At Room Temperature)			
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +70℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max			
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75℃, 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			
	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axis			
SAFETY AND NOISE REGULATIONS	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			
	HARMONIC ATTENUATOR	Complies with IEC61000-3-2 *7			
OTHERS	CASE SIZE/WEIGHT	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)			
	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 μ F 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.

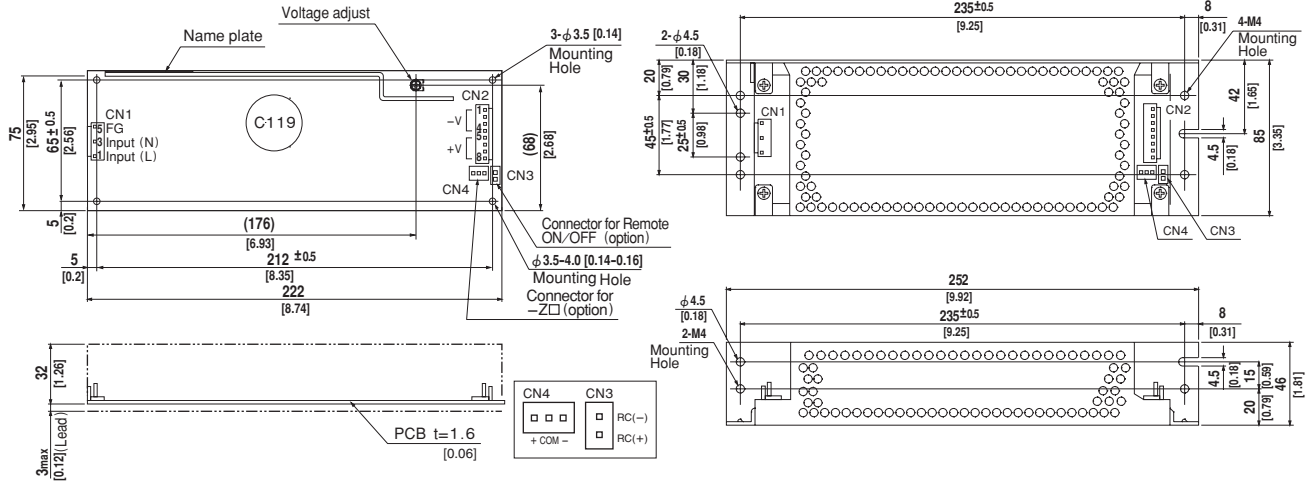
*7 Please contact us about class C.

* 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.

External view



I / O Connector	Mating Connector	Terminal
CN1	B3P5-VH	VHR-5N
		Chain: SVH-21T-P1.1
		Loose: BVH-21T-P1.1
CN2	B8P-VH	VHR-8N
		Chain: SVH-21T-P1.1
		Loose: BVH-21T-P1.1
CN3 (Option)	B2B-XH-A	XHP-2
		Chain: SXH-001T-P0.6
		Loose: BXH-001T-P0.6
CN4 (Option)	B3B-XH-A	XHP-3
		Chain: SXH-001T-P0.6
		Loose: BXH-001T-P0.6

(Mfr: J.S.T.)

CN1

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

※Weight: 380g max

(with chassis & cover : 650g max)

※Tolerance: ± 1 [± 0.04]

※Dimensions in mm, []=inches

※PCB Material : CEM3

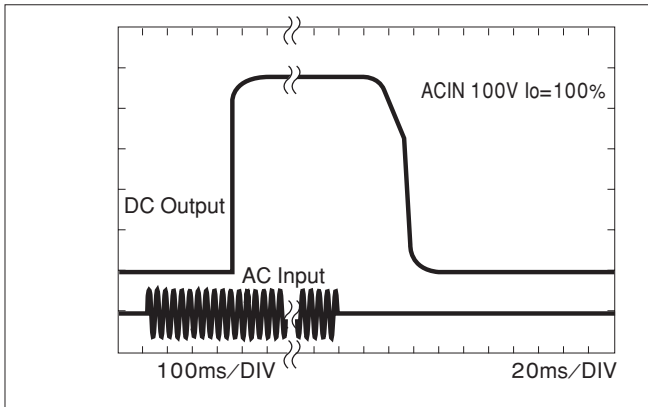
※Chassis and cover is optional.

※Mounting torque: 1.5N·m(16kgf·cm)max

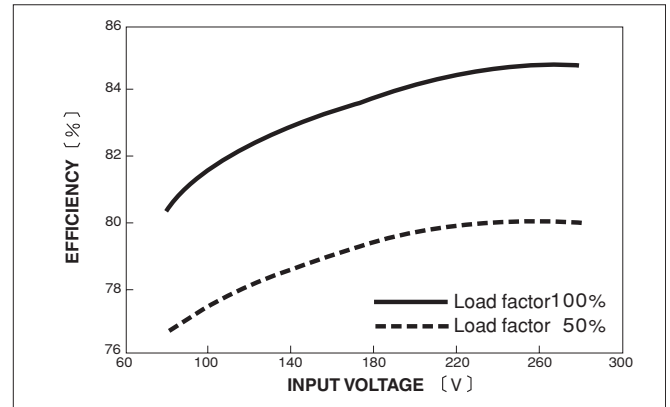
※Keep drawing current per pin below 5A(7A at peak load)for CN2

Performance data

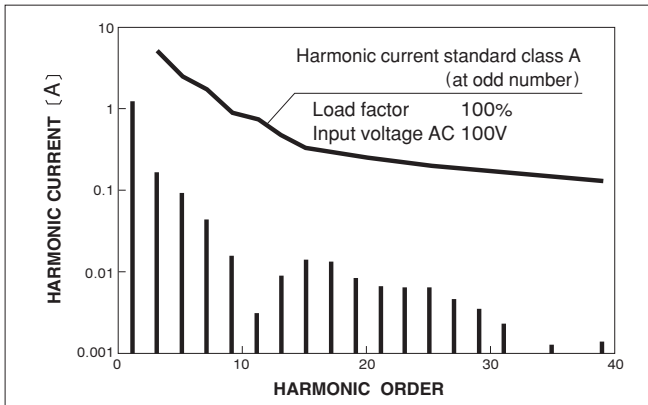
RISE TIME & FALL TIME (LEP100F-24)



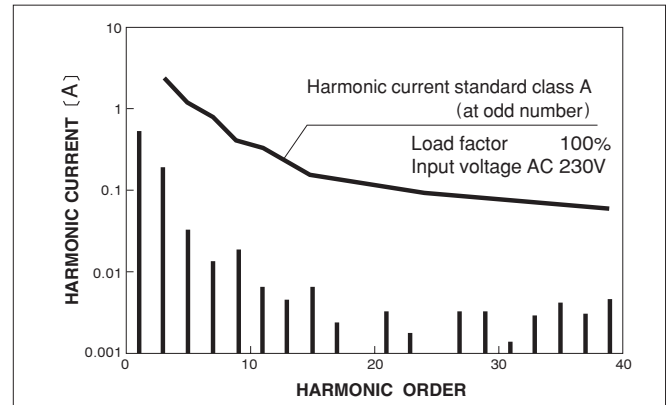
EFFICIENCY (LEP100F-24)



INPUT HARMONIC CURRENT (LEP100F-24)



INPUT HARMONIC CURRENT (LEP100F-24)



LEP150F

LEP 150 F -24 -□

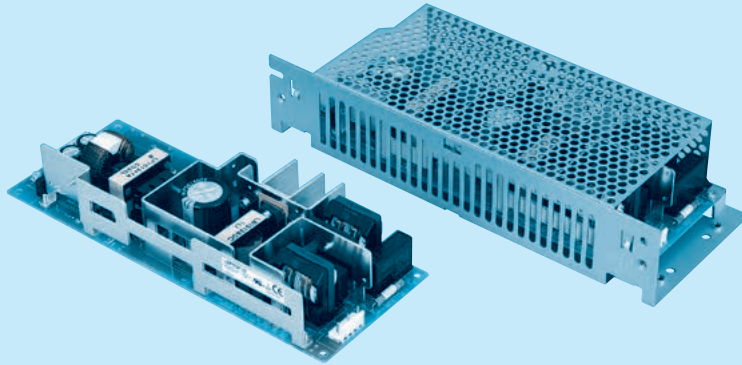
①

②

③

④

⑤



Example recommended EMI/EMC filter
NAC-06-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
* A higher current rating EMI/EMC filter
may be recommended in view of the
other devices that could be connected
in parallel with the power supply.

- 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

* 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
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℃)			
	ACIN 200V	30typ (Io=100%) (At cold start) (Ta=25℃)			
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℃ *3	120max	120max	150max
		-10 - 0℃ *3	160max	160max	300max
	RIPPLE NOISE[mVp-p]	0 to +45℃ *3	150max	150max	250max
		-10 - 0℃ *3	180max	180max	350max
	TEMPERATURE REGULATION[mV]	0 to +45℃	120max	150max	240max
		-10 to +45℃	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℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max		
	STORAGE TEMP., HUMID. AND ALTITUDE		-20 to +75℃, 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(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 *7		
	CASE SIZE/WEIGHT		85×40×222mm [3.35×1.57×8.74 inches] (W×H×D) /490g max (with chassis & cover : 830g 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.

*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.

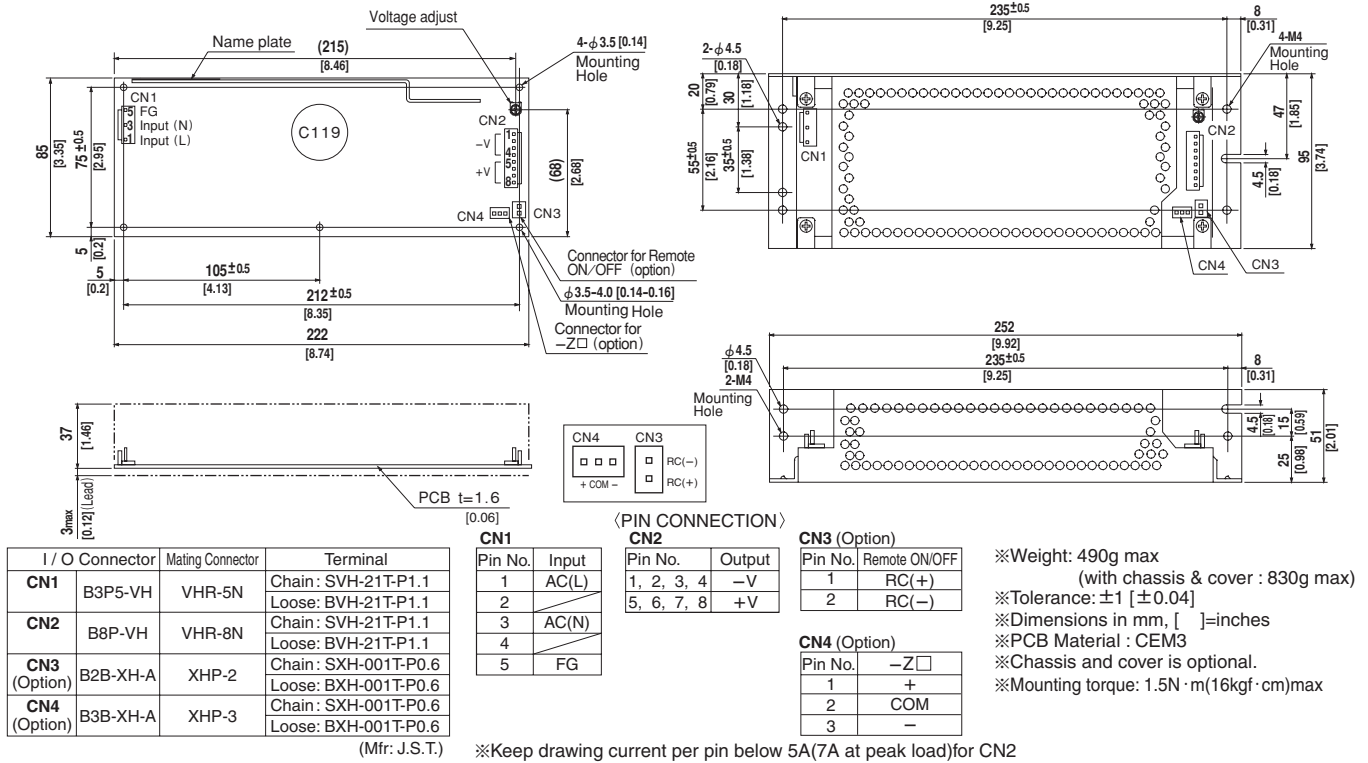
*7 Please contact us about class C.

* Parallel operation with other model is not possible.

* Derating is required when operated with chassis and cover.

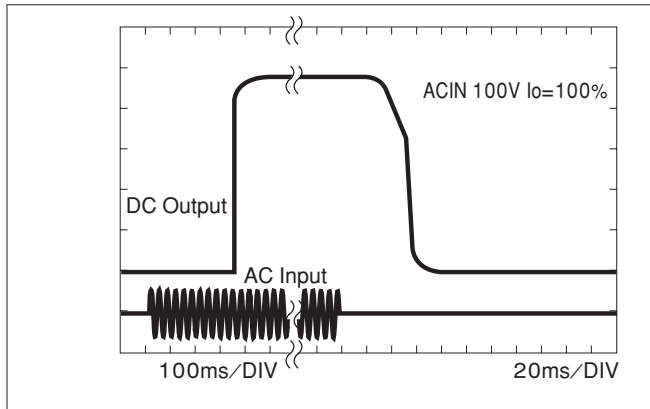
* A sound may occur from power supply at peak loading.

External view

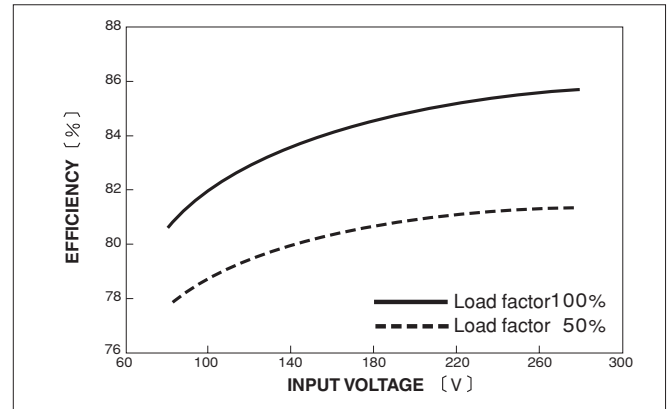


Performance data

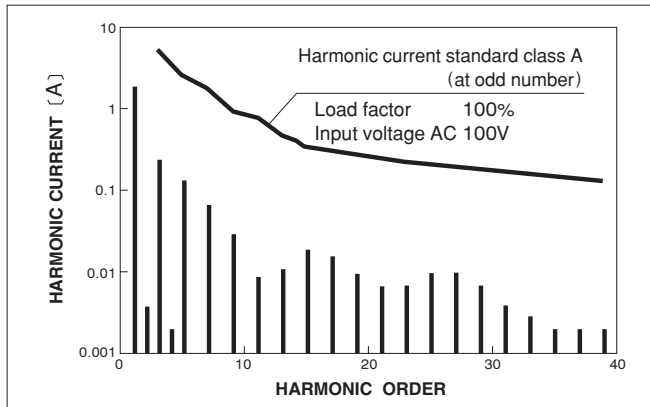
RISE TIME & FALL TIME (LEP150F-24)



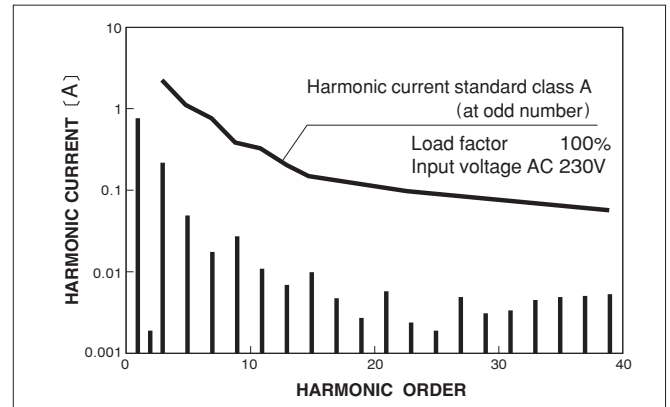
EFFICIENCY (LEP150F-24)



INPUT HARMONIC CURRENT (LEP150F-24)



INPUT HARMONIC CURRENT (LEP150F-24)



LEP240F

LEP 240 F -24 -□

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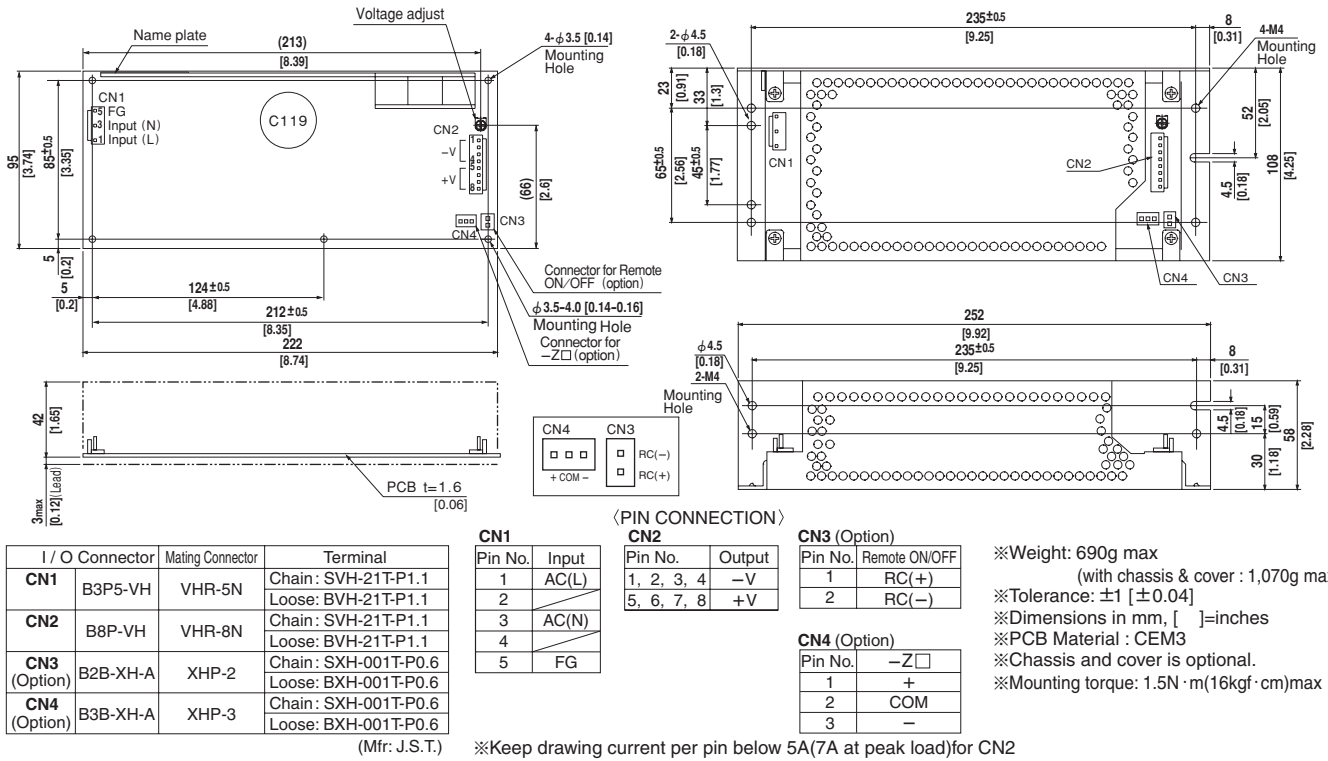
YUV Thailand

CE

UK

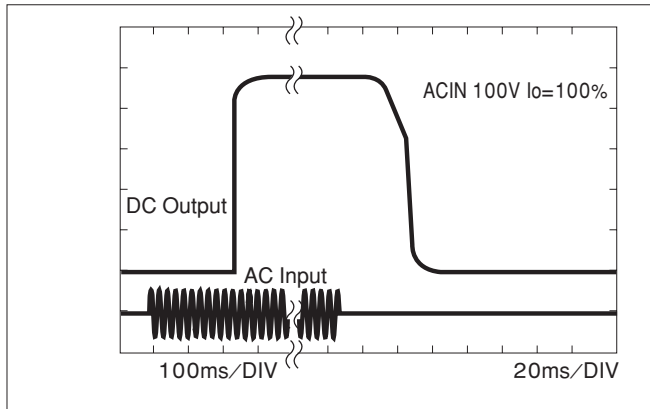
CA

External view

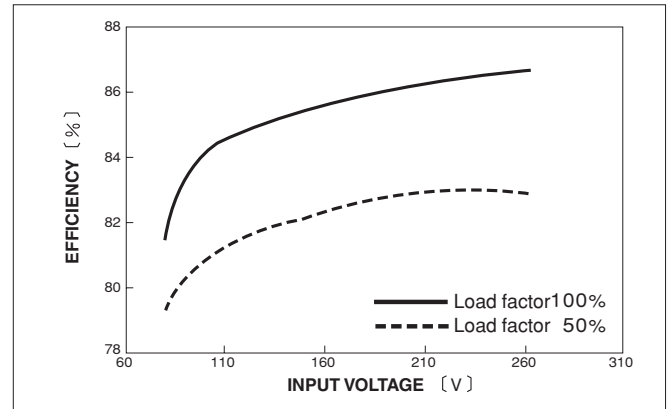


Performance data

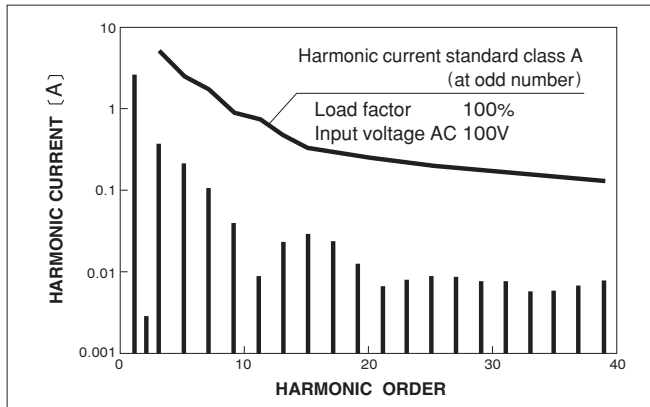
RISE TIME & FALL TIME (LEP240F-24)



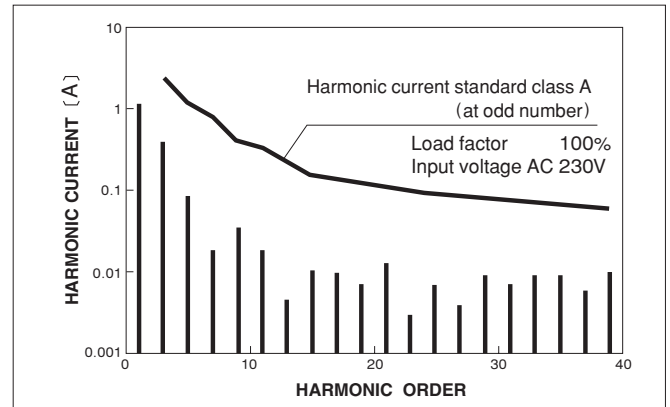
EFFICIENCY (LEP240F-24)



INPUT HARMONIC CURRENT (LEP240F-24)



INPUT HARMONIC CURRENT (LEP240F-24)



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cosel:

[LEP240F-48-Z44](#) [LEP100F-24-RT](#) [LEP100F-24-SNG](#) [LEP100F-36-SNRT](#) [LEP150F-36](#) [LEP150F-48-Z44](#)
[LEP240F-48-SNC](#) [LEP240F-48-SNR](#) [LEP240F-48-Z41](#) [LEP240F-48-Z42](#) [LEP240F-24-SG](#) [LEP240F-24-Z32](#)
[LEP240F-36-GT](#) [LEP240F-36-R](#) [LEP240F-36-SR](#) [LEP240F-48-RD42](#) [LEP150F-36-SNC](#) [LEP150F-36-SNGT](#)
[LEP150F-48-RT](#) [LEP150F-48-SNRT](#) [LEP150F-48-ST](#) [LEP240F-24-RT](#) [LEP100F-48-Z41](#) [LEP150F-24-G](#) [LEP150F-24-T](#) [LEP150F-24-Z31](#) [LEP150F-36-RT](#) [LEP150F-36-S](#) [LEP100F-36-S](#) [LEP100F-36-SNG](#) [LEP100F-48-D41](#)
[LEP100F-48-SNT](#) [LEP100F-48-SNU](#) [LEP100F-48-U](#) [LEP100F-24-GT](#) [LEP100F-24-S](#) [LEP100F-24-ST](#) [LEP240F-36-TU](#) [LEP100F-24-U](#) [LEP100F-24-Z33](#) [LEP150F-48-SN](#) [LEP150F-48-Z45](#) [LEP240F-24-GT](#) [LEP240F-24-R](#) [LEP240F-24-RZ32](#) [LEP240F-24-SNC](#) [LEP150F-36-SNRT](#) [LEP150F-36-U](#) [LEP150F-48-D41](#) [LEP150F-48-D42](#) [LEP150F-48-RZ42](#) [LEP150F-48-S](#) [LEP150F-24-SNR](#) [LEP150F-24-SZ32](#) [LEP150F-24-U](#) [LEP150F-24-Z33](#) [LEP150F-36-R](#)
[LEP150F-36-SN](#) [LEP100F-48-Z44](#) [LEP150F-24](#) [LEP150F-24-D26](#) [LEP150F-24-GT](#) [LEP150F-24-RT](#) [LEP150F-24-SNC](#) [LEP100F-36-ST](#) [LEP100F-48-GT](#) [LEP100F-48-SNC](#) [LEP100F-48-SNG](#) [LEP100F-48-SNR](#) [LEP100F-48-SNRT](#)
[LEP100F-24-SCT](#) [LEP100F-24-SNRT](#) [LEP100F-24-TU](#) [LEP100F-24-Z31](#) [LEP100F-36-RT](#) [LEP100F-36-SNU](#)
[LEP240F-48-SNRT](#) [LEP240F-48-SNT](#) [LEP240F-48-SNU](#) [LEP240F-48-T](#) [LEP240F-48-U](#) [LEP100F-24-C](#) [LEP240F-36-SNR](#) [LEP240F-36-SNRT](#) [LEP240F-48-GR](#) [LEP240F-48-GT](#) [LEP240F-48-SNG](#) [LEP240F-48-SNGT](#) [LEP240F-24-SNZ31](#) [LEP240F-24-ST](#) [LEP240F-36-CD28](#) [LEP240F-36-G](#) [LEP240F-36-SGR](#) [LEP240F-36-SNG](#) [LEP150F-48-SNC](#)
[LEP150F-48-SNU](#) [LEP150F-48-TU](#) [LEP100F-36](#) [LEP240F-24-SNG](#) [LEP240F-24-SNR](#)