RoHS

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LEP100F

LEP 100 F -24



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.

- Series name
 Output wattage
 Universal input
- Output voltage
- Soptional *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

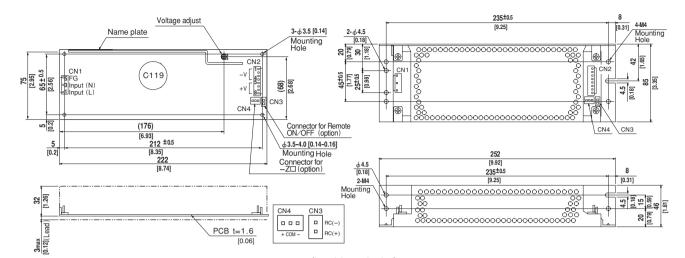
	MODEL		LEP100F-24 LEP100F-36 LEP100F-48				
	VOLTAGE[V]		AC85 - 264 1 ϕ or DC 120 - 370				
	CURRENT[A]	ACIN 100V	1.4typ (lo=100%)				
	CORRENT[A]	ACIN 200V	0.7typ (lo=100%)				
	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
	EFFICIENCY[%]		81typ (Io=100%)	82typ (lo=100%)	83typ (lo=100%)		
INPUT	LITIOILING I[/0]		84typ (Io=100%)	85typ (lo=100%)	85typ (lo=100%)		
	POWER FACTOR		.98typ (lo=100%)				
	POWER FACTOR		0.93typ (lo=100%)				
	INRUSH CURRENT[A]		15typ (Io=100%) (At cold start) (Ta=25°C)				
			30typ (lo=100%) (At cold start) (Ta=25°C)				
	LEAKAGE CURRENT[r	nA]	0.75max (60Hz, According to IEC60950 ar	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\	/]	48max	48max	48max		
	LOAD REGULATION[m	V]	76max	90max	150max		
	RIPPLE[mVp-p]	0 to +50°C * 3	120max	120max	150max		
	NIPPLE[IIIVP-P]	-10 - 0℃ *3		160max	300max		
ОИТРИТ	RIPPLE NOISE[mVp-p]	0 to +50°C * 3	150max	150max	250max		
0011-01	MIFFEE NOISE[IIIVP-P]	-10 - 0℃ *3	180max	180max	350max		
	TEMPERATURE REGULATION[mV]	0 to +50°C	120max	150max	240max		
	TEMPERATURE REGULATION[IIIV]	-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			26.4 - 39.6	39.6 - 52.8		
	OUTPUT VOLTAGE SET		23.0 - 25.0	35.0 - 37.0	46.0 - 50.0		
FROILCHON			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)				
	INPUT-OUTPUT · RC	*5	S AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)				
ISOLATION	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)				
	OPERATING TEMP., HUMID. AND		3, 1				
	STORAGE TEMP., HUMID. AND	ALTITUDE					
LIA I I I O I AINI E I A I	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis				
SAFETY AND	AGENCY APPROVALS		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60965, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input)				
	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN550	022-B, VCCI-B			
	HARMONIC ATTENUAT	TOR	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.
- 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).
- 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.
- 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.

LEP-2



External view



1/0	Connector	Mating Connector	Terminal	
CN1	B3P5-VH	VHR-5N	Chain: SVH-21T-P1.1	
	D3P3-VII	VIIC-DIN	Loose: BVH-21T-P1.1	
CN2	B8P-VH	VHR-8N	Chain: SVH-21T-P1.1	
	DOP-VII	VIII-OIN	Loose: BVH-21T-P1.1	
CN3	B2B-XH-A	XHP-2	Chain: SXH-001T-P0.6	
(Option)	DZD-AN-A	ARP-2	Loose: BXH-001T-P0.6	
CN4	B3B-XH-A	XHP-3	Chain: SXH-001T-P0.6	
(Option)	D3D-AN-A	VUL-2	Loose: BXH-001T-P0.6	

CN1 Pin No. Input AC(L) 3 AC(N) FG

	(PIN CONNECTION) CN2							
Pir	n N	0.		Output				
1,	2,	3,	-V					
5,	6,	7,	8	+V				

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

CN4 (Option) Pin No. COM 2

%Weight: 380g max

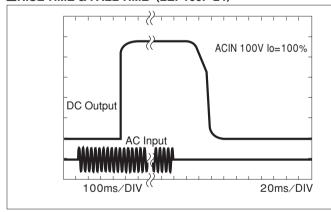
(with chassis & cover : 650g max) **Tolerance: ±1 [±0.04] *Dimensions in mm, []=inches

*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

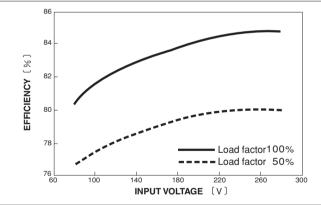
Performance data

■RISETIME & FALLTIME (LEP100F-24)

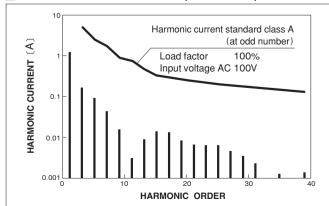


(Mfr: J.S.T.)

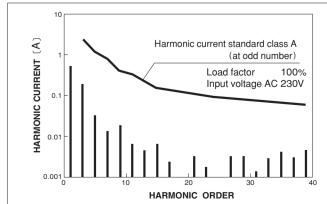
■EFFICIENCY (LEP100F-24)



■INPUT HARMONIC CURRENT (LEP100F-24)



■INPUT HARMONIC CURRENT (LEP100F-24)



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LEP150F

LEP 150 F -24 6 6





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.

- Series name
 Output wattage
 Universal input
- 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

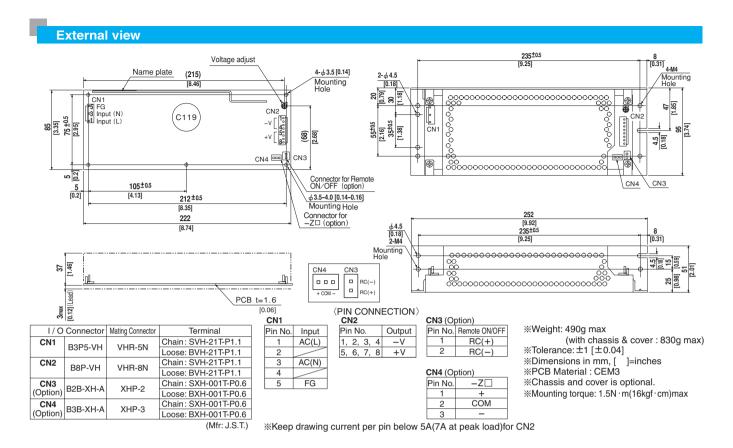
SPECIFICATIONS

	MODEL		LEP150F-24	LEP150F-36	LEP150F-48			
	VOLTAGE[V]		AC85 - 264 1φ or DC 120 - 370					
			2.0typ (lo=100%)					
			1.0typ (lo=100%)					
	FREQUENCY[Hz]		50/60 (47 - 63) or DC					
	EEEIOIENOVIO/3	ACIN 100V	82typ (Io=100%)	83typ (Io=100%)	84typ (lo=100%)			
INPUT	EFFICIENCY[%]	ACIN 200V	85typ (Io=100%)	86typ (Io=100%)	87typ (Io=100%)			
	DOWED FACTOR	ACIN 100V	0.98typ (lo=100%)					
	POWER FACTOR	ACIN 200V	0.93typ (lo=100%)					
	INDUCU CUDDENTIAL	ACIN 100V	15typ (Io=100%) (At cold start) (Ta=25℃)					
	INRUSH CURRENT[A]	ACIN 200V	30typ (lo=100%) (At cold start) (Ta=25°C)					
	LEAKAGE CURRENT[r	nA]	0.75max (60Hz, According to IEC60950 at	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[mV	/]	48max	48max	48max			
	LOAD REGULATION[m	V]	76max	90max	150max			
	DIDDI ElmVn nl	0 to +45°C * 3	120max	120max	150max			
	RIPPLE[mVp-p]	-10 - 0°C *3	160max	160max	300max			
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +45℃ *3	150max	150max	250max			
OUIPUI	RIPPLE NOISE[IIIVP-P]	-10 - 0℃ *3	180max	180max	350max			
	TEMPEDATURE RECUI ATIONIVI	0 to +45℃	120max	150max	240max			
	TEMPERATURE REGULATION[mV]	-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			26.4 - 39.6	39.6 - 52.8			
	OUTPUT VOLTAGE SET	TING[V]	23.0 - 25.0	35.0 - 37.0	46.0 - 50.0			
PROTECTION			Works over 101% of peak current and rec	overs automatically				
CIRCUIT AND	OVERVOLTAGE PROTE	CTION	Works at 115 - 140% of rating					
OTHERS	REMOTE ON/OFF		Option (Refer to Instruction Manual)					
	INPUT-OUTPUT · RC	*5		, DC500V 50M Ω min (At Room Temperatu				
ISOLATION	INPUT-FG		AC2.000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
ISOLATION	OUTPUT · RC-FG	*5		DC500V 50M Ω min (At Room Temperature				
	OUTPUT-RC	*5	AC100V 1minute, Cutoff current = 100mA, DC100V 10M Ω min (At Room Temperature)					
	OPERATING TEMP.,HUMID.AND			ng) (Refer to DERATING CURVE), 3,000m	(10,000feet) max			
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE						
ENVIRONMENT	VIBRATION	10 - 55Hz, 19.6m/s² (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	AGENCY APPROVALS		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60965, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input)					
NOISE	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B					
REGULATIONS	HARMONIC ATTENUAT	OR	Complies with IEC61000-3-2 *7					
OTHERS	CASE SIZE/WEIGHT		85 x 40 x 222mm [3.35 x 1.57 x 8.74 inches] (W x H x D) /490g max (with chassis & cover : 830g max)					
3E.I.O	COOLING METHOD		Convection					

- Specification is changed at option, refer to Instruction Manual 6.

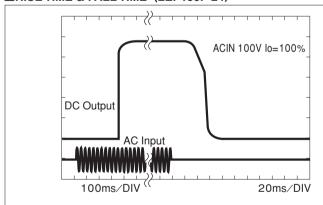
 Peak loading for 10sec. And Duty 35% max, refer to Instruction Manual 5. In detail.
- This is the value that measured on measuring board with capacitor of 22 µ F within 150mm
- from output terminal.Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).
- Drift is the 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.
- Applicable when remote control (optional) is added.
- Please contact us about safety approvals for the model with option.
- 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.
- LEP-4 March 13, 2019



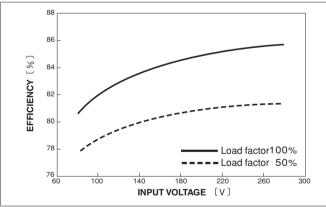


Performance data

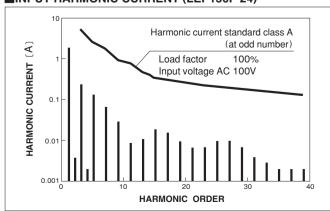
■RISETIME & FALLTIME (LEP150F-24)



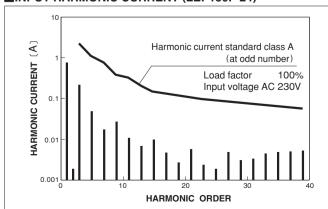
■EFFICIENCY (LEP150F-24)



■INPUT HARMONIC CURRENT (LEP150F-24)



■INPUT HARMONIC CURRENT (LEP150F-24)



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LEP240F

LEP 240 F -24 S



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.

- Series name
 Output wattage
 Universal input
- Output voltage
- Soptional *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	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

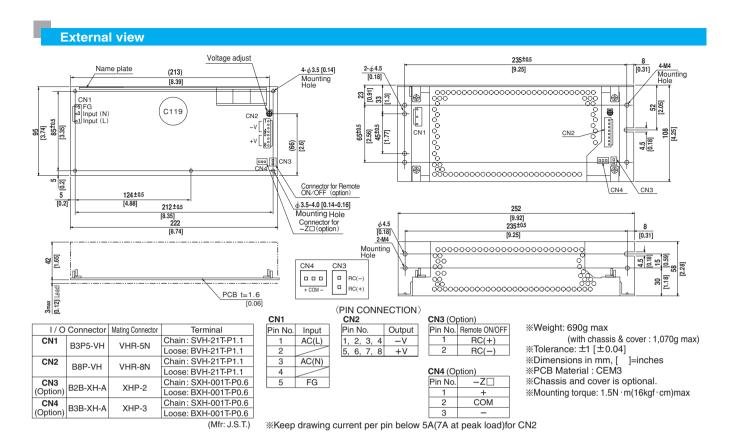
	MODEL		LEP240F-24	LEP240F-36	LEP240F-48			
	VOLTAGE[V]		AC85 - 264 1 ϕ or DC 120 - 370					
-	ACIN 100V		3.3typ (lo=100%)					
	CURRENT[A]	ACIN 200V						
	FREQUENCY[Hz]		50/60 (47 - 63) or DC					
	ACIN 100V		83typ (lo=100%)	84typ (Io=100%)	84typ (Io=100%)			
INPUT	EFFICIENCY[%]	ACIN 200V	86typ (lo=100%)	87typ (lo=100%)	87typ (Io=100%)			
	DOWED FACTOR	ACIN 100V	9.98typ (Io=100%)					
		ACIN 200V	0.93typ (lo=100%)					
	INDUCU CUDDENTIAL	ACIN 100V	15typ (Io=100%) (More than 3sec.to re-start)					
	INRUSH CURRENT[A]	ACIN 200V	30typ (lo=100%) (More than 3sec.to re-start)					
	LEAKAGE CURRENT[r	nA]	0.75max (60Hz, According to IEC60950 at	nd 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\	/]	48max	48max	48max			
	LOAD REGULATION[m	ıV]	76max	90max	150max			
	DIDDI ElmVa al	0 to +40°C * 3	120max	120max	150max			
	RIPPLE[mVp-p]	-10 - 0℃ *3	160max	160max	300max			
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +40°C *3	150max	150max	250max			
OUTPUT	RIPPLE NOISE[IIIVP-P]	-10 - 0℃ *3	180max	180max	350max			
	TEMPERATURE REGULATION[mV]	0 to +40°C	120max	150max	240max			
	IEMPERATURE REGULATION[MV]	-10 to +40℃	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		21.4 - 26.4	26.4 - 39.6	39.6 - 52.8			
	OUTPUT VOLTAGE SET		23.0 - 25.0	35.0 - 37.0	46.0 - 50.0			
			Works over 101% of peak current and recovers automatically					
	OVERVOLTAGE PROTE	CTION	Works at 115 - 140% of rating					
OTHERS	REMOTE ON/OFF		Option (Refer to Instruction Manual)					
	INPUT-OUTPUT · RC	*5	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)					
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
ISOLATION	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)					
	OPERATING TEMP.,HUMID.AND							
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE						
	VIBRATION		10 - 55Hz, 19.6m/s² (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					
OALETT AND			UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60965, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input)					
NOISE	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B					
REGULATIONS	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 *7					
OTHERS	CASE SIZE/WEIGHT		95×45×222mm [3.74×1.77×8.74 inches] (WxH×D) /690g max (with chassis & cover: 1,070g max)					
UTILLIO	COOLING METHOD		Convection					

- Specification is changed at option, refer to Instruction Manual 6.

 Peak loading for 10sec. And Duty 35% max, refer to Instruction Manual 5. In detail.
- 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).
- 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.
- Applicable when remote control (optional) is added.
- Please contact us about safety approvals for the model with option.
- 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.

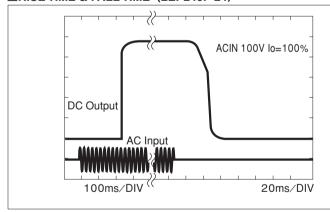
LEP-6



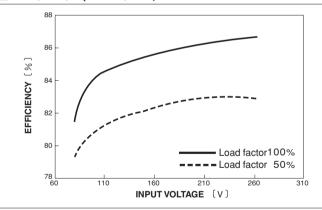


Performance data

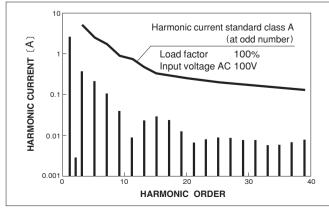
■RISETIME & FALLTIME (LEP240F-24)



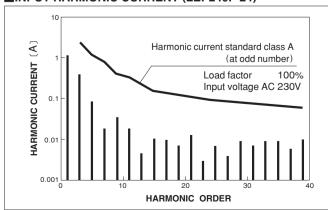
■EFFICIENCY (LEP240F-24)



■INPUT HARMONIC CURRENT (LEP240F-24)



■INPUT HARMONIC CURRENT (LEP240F-24)



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