LEP100F

LEP 100 F -24



1) Series name2) Output wattage3) Universal input

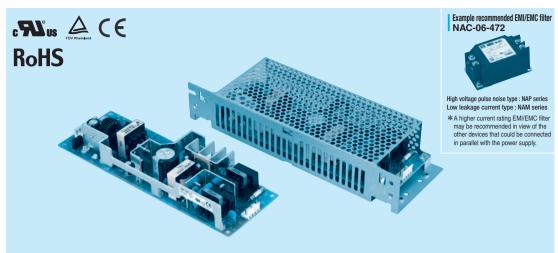
Output voltage

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				
INPUT	ACIN 100V		1.4typ (lo=100%)				
	CURRENT[A]	ACIN 200V	0.7typ (lo=100%)				
	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
	EFFICIENCY[%]	ACIN 100V	81typ (lo=100%)	82typ (Io=100%)	83typ (Io=100%)		
	EFFICIENCI[/6]	ACIN 200V	84typ (Io=100%)	85typ (Io=100%)	85typ (Io=100%)		
	POWER FACTOR	ACIN 100V	0.98typ (Io=100%)				
	POWER FACTOR	ACIN 200V	0.93typ (lo=100%)				
	INRUSH CURRENT[A]		15typ (lo=100%) (At cold start) (Ta=25℃)				
			30typ (Io=100%) (At cold start) (Ta=25°C)				
	LEAKAGE CURRENT[n	nA]	0.75max (60Hz, According to IEC60950 and 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[mV]		48max	48max	48max		
	LOAD REGULATION[m	V]	76max	90max	150max		
	RIPPLE[mVp-p]	0 to +50°C * 3		120max	150max		
		_		160max	300max		
ОИТРИТ	RIPPLE NOISE[mVp-p]	0 to +50°C * 3		150max	250max		
OUTFUT		-10 - 0℃ *3		180max	350max		
	TEMPERATURE REGULATION[mV]	0 to +50°C		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			26.4 - 39.6	39.6 - 52.8		
	OUTPUT VOLTAGE SET			35.0 - 37.0	46.0 - 50.0		
PROTECTION			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 50M Ω min (At Room Temperature)				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	OUTPUT · RC-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)				
	OUTPUT-RC	*5	The result of the second of th				
	OPERATING TEMP.,HUMID.AND						
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	3,7				
	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 a				
SAFETY AND	AGENCY APPROVALS			0-1, EN60065, EN50178 Complies with DEN	N-AN and IEC60950-1 (At only AC input)		
NOISE REGULATIONS	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN550	022-B, VCCI-B			
	HARMONIC ATTENUAT	OR	Complies with IEC61000-3-2 *7				
OTHERS	CASE SIZE/WEIGHT		75×35×222mm [2.95×1.38×8.74 inches] (W×H×D) /380g max (with chassis & cover : 650g max)				
	COOLING METHOD		Convection				

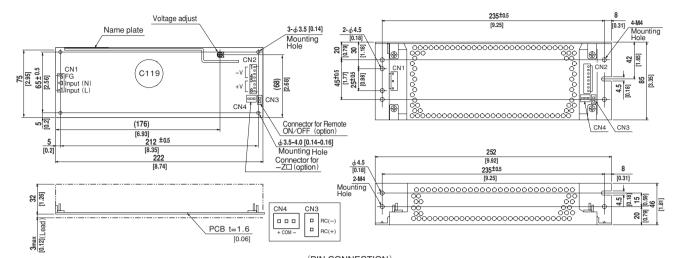
- Specification is changed at option, refer to Instruction Manual 6.

 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.
- *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)	DOD-AIT-A	VUL-2	Loose: BXH-001T-P0.6	

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

Pir	ηN	0.		Output
1,	2,	3,	-V	
5,	6,	7,	8	+٧

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

CN4 (Option) Pin No. COM 2

%Weight: 380g max

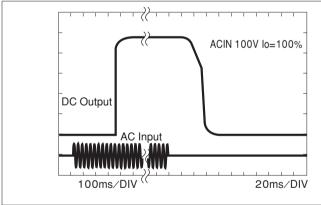
(with chassis & cover : 650g max) **Tolerance: ±1 [±0.04]]=inches

*Dimensions in mm, [*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

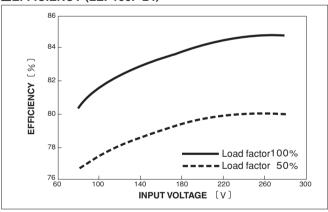
Performance data

■RISETIME & FALLTIME (LEP100F-24)

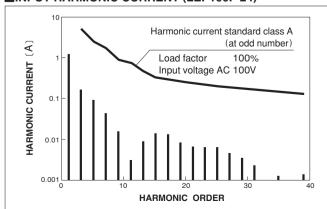


(Mfr: J.S.T.)

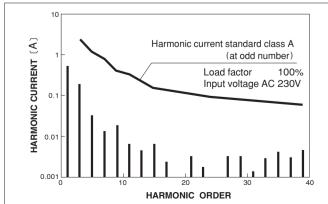
■EFFICIENCY (LEP100F-24)



■INPUT HARMONIC CURRENT (LEP100F-24)



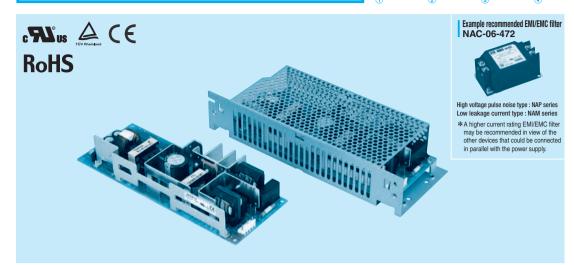
■INPUT HARMONIC CURRENT (LEP100F-24)



LEP150F

LEP 150 F -24 6 6





- 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.

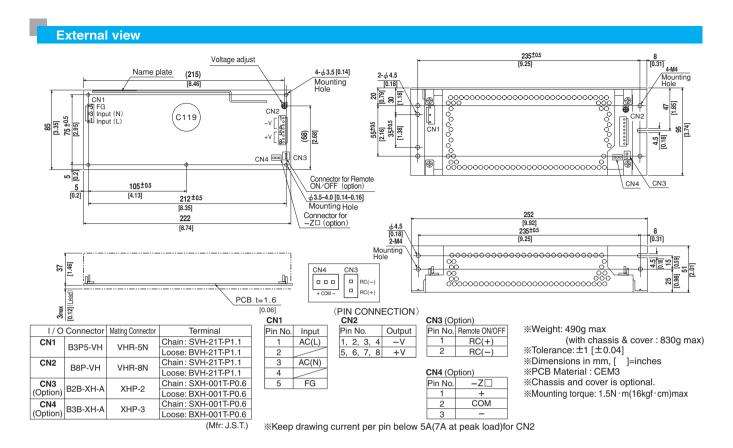
MODEL	LEP150F-24	LEP150F-36	LEP150F-48
DC OUTPUT	+24V 6.3(Peak 12)A	+36V 4.2(Peak 8)A	+48V 3.2(Peak 6)A

SPECIFICATIONS

	MODEL		LEP150F-24	LEP150F-36	LEP150F-48		
	VOLTAGE[V]		AC85 - 264 1 \(\phi \) or DC 120 - 370				
INPUT	CURRENT[A]	ACIN 100V	2.0typ (lo=100%)				
	CURRENT[A]	ACIN 200V	1.0typ (lo=100%)				
	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
	EFFICIENCY[%]		82typ (lo=100%)	83typ (lo=100%)	84typ (lo=100%)		
			85typ (lo=100%)	86typ (lo=100%)	87typ (Io=100%)		
	POWER FACTOR		0.98typ (lo=100%)				
			0.93typ (lo=100%)				
			15typ (lo=100%) (At cold start) (Ta=25℃)				
			30typ (Io=100%) (At cold start) (Ta=25℃)				
	LEAKAGE CURRENT[r	nA]	0.75max (60Hz, According to IEC60950 and 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[mV]		76max	90max	150max		
	RIPPLE[mVp-p]	0 to +45°C * 3		120max	150max		
		-10 - 0℃ *3		160max	300max		
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +45°C * 3		150max	250max		
		-10 - 0℃ *3	180max	180max	350max		
	TEMPERATURE REGULATION[mV]	0 to +45℃		150max	240max		
		-10 to +45℃		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		
PROTECTION	OVERCURRENT PROT						
OTHERS	OVERVOLTAGE PROTE	CHON	Works at 115 - 140% of rating				
			Option (Refer to Instruction Manual)				
	INPUT-OUTPUT · RC	*5					
ISOLATION	OUTPUT · RC-FG	*5	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)				
	OUTPUT-RC	*5					
	OPERATING TEMP.;HUMID.AND		1.00.000				
	STORAGE TEMP., HUMID.AND		3, , ,				
ENVIRONMENT	VIBRATION	ALITIODE					
	IMPACT		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis 196.1m/s² (20G), 11ms, once each X, Y and Z axis				
0455577.4	AGENCY APPROVALS		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60965, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input)				
SAFETY AND NOISE	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN550		TAIN and 12000930-1 (At only AO IIIput)		
REGULATIONS	HARMONIC ATTENUAT	OR	Complies with IEC61000-3-2 *7	722 D, VOOI-D			
	CASE SIZE/WEIGHT	On.	Complies with IEC61000-3-2 */ 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)				
OTHERS	COOLING METHOD		Convection [3.35 x 1.57 x 6.74 inches	by (WV ATTAD) /4909 max (With chassis & Co	vei . 000g ilidx)		
	COOLING METHOD		Convection				

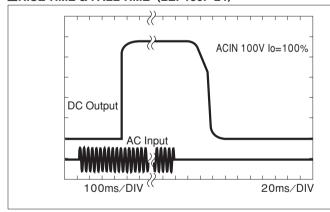
- *1 Specification is changed at option, refer to Instruction Manual 6.
 *2 Peak loading for 10sec. And Duty 35% max, refer to Instruction Manual 5. In detail.
- This is the value that measured on measuring board with capacitor of 22 µ F within 150mm from output terminal.Measured by 20MHz oscilloscope 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.



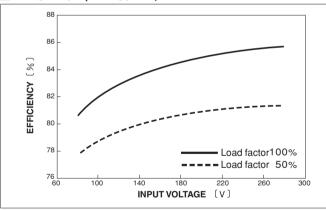


Performance data

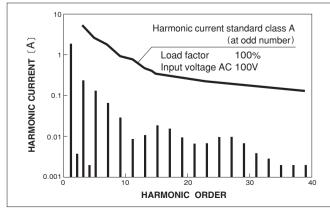
■RISETIME & FALLTIME (LEP150F-24)



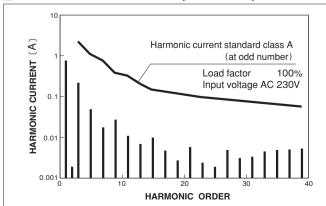
■EFFICIENCY (LEP150F-24)



■INPUT HARMONIC CURRENT (LEP150F-24)



■INPUT HARMONIC CURRENT (LEP150F-24)



RoHS

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LEP240F

LEP 240 F -24

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.

- 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

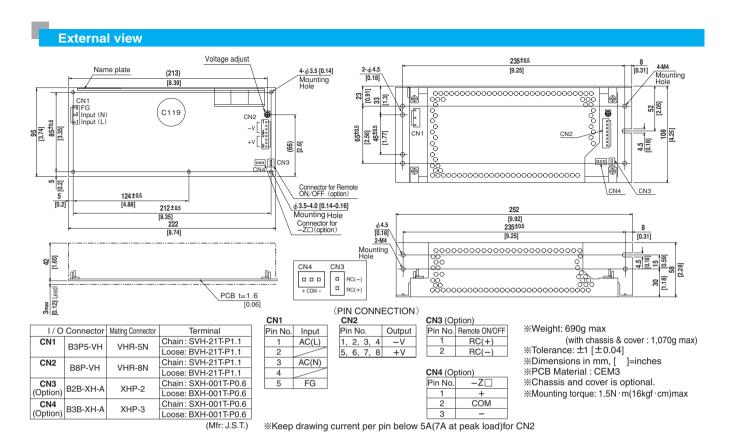
	MODEL		LEP240F-24	LEP240F-36	LEP240F-48		
	VOLTAGE[V]		AC85 - 264 1 ϕ or DC 120 - 370				
	ACIN 100V		3.3typ (lo=100%)				
INPUT	CURRENT[A]	ACIN 200V	1.7typ (lo=100%)				
	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
	EFFICIENCY[%]	ACIN 100V	83typ (lo=100%)	84typ (Io=100%)	84typ (Io=100%)		
	EFFICIENCI[/6]	ACIN 200V	86typ (Io=100%)	87typ (Io=100%)	87typ (Io=100%)		
	POWER FACTOR	ACIN 100V	0.98typ (Io=100%)				
	POWER FACTOR	ACIN 200V	0.93typ (Io=100%)				
			15typ (lo=100%) (More than 3sec.to re-sta				
			30typ (lo=100%) (More than 3sec.to re-start)				
	LEAKAGE CURRENT[mA]		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\		48max	48max	48max		
	LOAD REGULATION[m		76max	90max	150max		
	RIPPLE[mVp-p]	0 to +40℃ *3	120max	120max	150max		
		_	160max	160max	300max		
OUTPUT	RIPPLE NOISE[mVp-p]		150max	150max	250max		
0011 01	TILL TEE HOIOE[IIIVP-P]	-10 - 0℃ *3	180max	180max	350max		
	TEMPERATURE REGULATION[mV]	0 to +40°C	120max	150max	240max		
		-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		
PROTECTION	OVERCURRENT PROT						
CIRCUIT AND OTHERS	OVERVOLTAGE PROTECTION		Works at 115 - 140% of rating				
OTHERS	REMOTE ON/OFF		Option (Refer to Instruction Manual)				
	INPUT-OUTPUT · RC	*5					
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	OUTPUT · RC-FG	*5					
	OUTPUT-RC	*5					
			-10 to +70°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max				
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALIIIUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	VIBRATION						
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis				
SAFETY AND NOISE	AGENCY APPROVALS CONDUCTED NOISE		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60965, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input)				
REGULATIONS		OB	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B				
	HARMONIC ATTENUAT	UK	Complies with IEC61000-3-2 *7 95 x 45 x 222mm [3.74 x 1.77 x 8.74 inches] (Wx H x D) /690g max (with chassis & cover : 1,070g max)				
OTHERS	CASE SIZE/WEIGHT			sj (wxnxu) /690g max (with chassis & co	/er : 1,070g max/		
	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.
- *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.

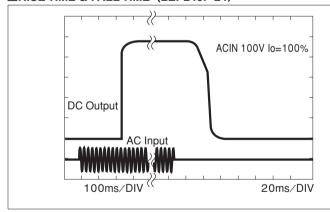
LEP-6



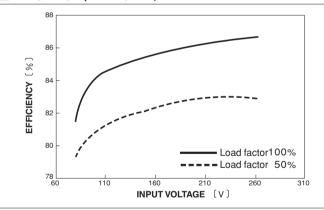


Performance data

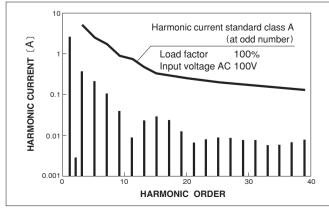
■RISETIME & FALLTIME (LEP240F-24)



■EFFICIENCY (LEP240F-24)



■INPUT HARMONIC CURRENT (LEP240F-24)



■INPUT HARMONIC CURRENT (LEP240F-24)

