Recommended Noise Filter  
NAC-06-472

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

- ① Series name  
② Output wattage  
③ Universal input  
④ V1 Output voltage  
⑤ V2 Output voltage  
⑥ Optional \*1  
G : Low leakage current  
R : with Remote ON/OFF  
S : with Chassis  
SN : with Chassis & cover  
T : Vertical terminal block  
Y : with Potentiometer  
Z : with ZT

MODEL		LEB100F-0512	LEB100F-0324	LEB100F-0524	LEB100F-0530	LEB100F-0536
DC OUTPUT	V1	+5V 5A	+3.3V 5A	+5V 5A	+5V 5A	+5V 5A
	V2	+12V 5(Peak 10)A	+24V 4(Peak 7)A	+24V 4(Peak 7)A	+30V 3.2(Peak 5.6)A	+36V 2.7(Peak 4.7)A

## SPECIFICATIONS

	MODEL	LEB100F-0512		LEB100F-0324		LEB100F-0524		LEB100F-0530		LEB100F-0536	
		ACIN 100V		ACIN 200V		ACIN 100V		ACIN 200V		ACIN 100V	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC 120 - 370									
	CURRENT[A]	1.2typ (Io=100%)		1.4typ (Io=100%)							
	FREQUENCY[Hz]	50/60 (47 - 63) or DC									
	EFFICIENCY[%]	74typ (Io=100%)		78typ (Io=100%)		78typ (Io=100%)		78typ (Io=100%)		78typ (Io=100%)	
	POWER FACTOR	0.98typ		0.99typ							
	INRUSH CURRENT[A]	15typ (Io=100%) (At cold start) (Ta=25℃)		30typ (Io=100%) (At cold start) (Ta=25℃)							
	LEAKAGE CURRENT[ma]	0.75max (60Hz, According to IEC60950 and DEN-AN)									
OUTPUT	VOLTAGE[V]	+5	+12	+3.3	+24	+5	+24	+5	+30	+5	+36
	CURRENT[A]	*2 0 - 5	0 - 5 (Peak 10)	0 - 5	0 - 4 (Peak 7)	0 - 5	0 - 4 (Peak 7)	0 - 5	0 - 3.2 (Peak 5.6)	0 - 5	0 - 2.7 (Peak 4.7)
	TOTAL OUTPUT WATTAGE[W]	*3 85 (Peak 145)		100 (Peak 172)		100 (Peak 172)		100 (Peak 172)		100 (Peak 172)	
	LINE REGULATION[mV]	20max	48max	20max	96max	20max	96max	20max	120max	20max	144max
	LOAD REGULATION[mV]	40max	100max	40max	150max	40max	150max	40max	180max	40max	180max
	RIPPLE[mVp-p]	0 to +50℃ *4 80max	120max	80max	120max	80max	120max	80max	200max	80max	200max
	RIPPLE NOISE[mVp-p]	-10 - 0℃ *4 140max	160max	140max	160max	140max	160max	140max	240max	140max	240max
	TEMPERATURE REGULATION[mV]	0 to +50℃ *4 120max	150max	120max	150max	120max	150max	120max	300max	120max	300max
	DRIFT[mV]	-10 to 0℃ *4 160max	180max	160max	180max	160max	180max	160max	360max	160max	360max
	START-UP TIME[ms]	0 to +50℃ 50max	120max	50max	240max	50max	240max	50max	300max	50max	300max
	HOLD-UP TIME[ms]	-10 to +50℃ 60max	150max	60max	290max	60max	290max	60max	350max	60max	350max
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	*5 20max	48max	20max	96max	20max	96max	20max	120max	20max	144max
	OUTPUT VOLTAGE SETTING[V]	*6 250max	500max	250max	500max	250max	500max	250max	500max	250max	500max
		*6 40typ	20typ	40typ	20typ	40typ	20typ	40typ	20typ	40typ	20typ
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	V1 Works over 105% of rating current and recovers automatically									
	OVERVOLTAGE PROTECTION	V1 Works over 115% of rating, by zener diode clamping									
	REMOTE ON/OFF	Option (Refer to Instruction Manual)									
		Works at 115 - 140% of rating									
ISOLATION	INPUT-OUTPUT · RC	*7 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	*7 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)									
	OUTPUT-OUTPUT(V1 · RC-V2)	*7 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 <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									
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1, 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									
OTHERS	CASE SIZE/WEIGHT	75 x 35 x 222mm (W x H x D) /420g max (without chassis and cover)									
	COOLING METHOD	Convection									

\*1 Specification is changed at option, refer to Instruction Manual 5.

\*2 Peak loading for 10sec. And Duty 35% max, refer to Instruction Manual 4. In detail.

\*3 Refer to Instruction Manual 2.2 in detail.

\*4 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).

\*5 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃,

with the input voltage held constant at the rated input/output.

\*6 ACIN 100V, Io=100%

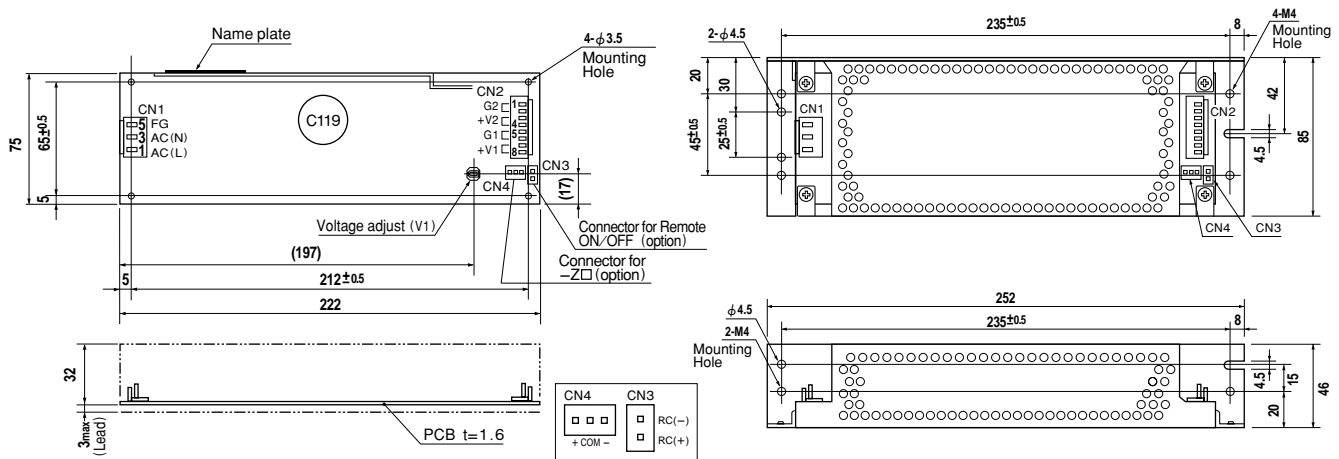
\*7 Applicable when remote control (optional) is added.

\* Series/Parallel operation 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
<b>CN1</b>	B3P5-VH	VHR-5N
		Chain: SVH-21T-P1.1
		Loose: BVH-21T-P1.1
<b>CN2</b>	B8P-VH	VHR-8N
		Chain: SVH-21T-P1.1
		Loose: BVH-21T-P1.1
<b>CN3 (Option)</b>	B2B-XH-A	XHP-2
		Chain: SXH-001T-P0.6
		Loose: BXH-001T-P0.6
<b>CN4 (Option)</b>	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	G 2
	3, 4	V 2
	5, 6	G 1
	7, 8	V 1

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

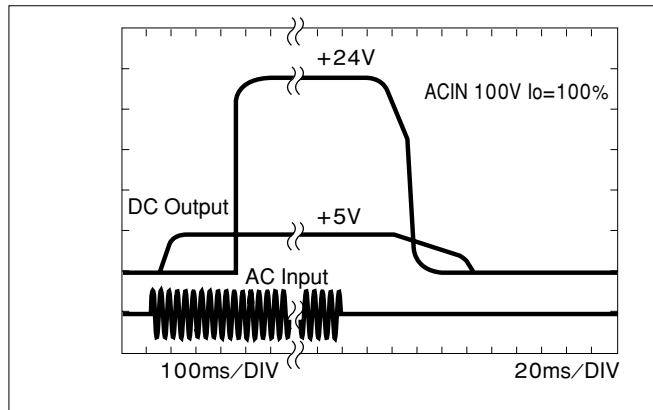
CN4 (Option)	Pin No.	-Z□
	1	+
	2	COM
	3	-

- ※Weight: 420g or less (Without chassis and cover)
- ※Tolerance:  $\pm 1$
- ※Dimensions in mm.
- ※PCB Material : CEM3
- ※Chassis and cover is optional.
- ※Mounting torque: 1.5N · m(16kgf · cm)max

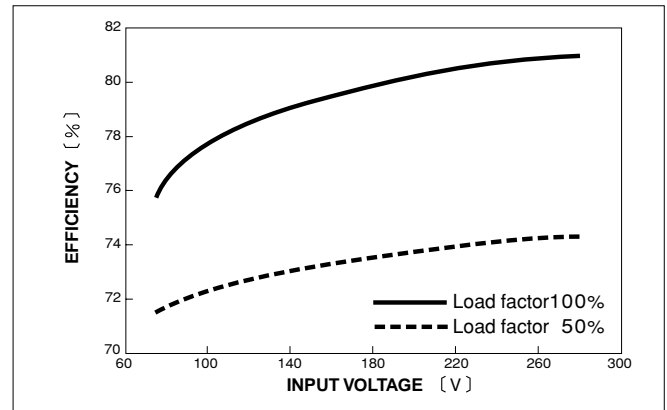
※Keep drawing current per pin below 5A for CN2

## Performance data

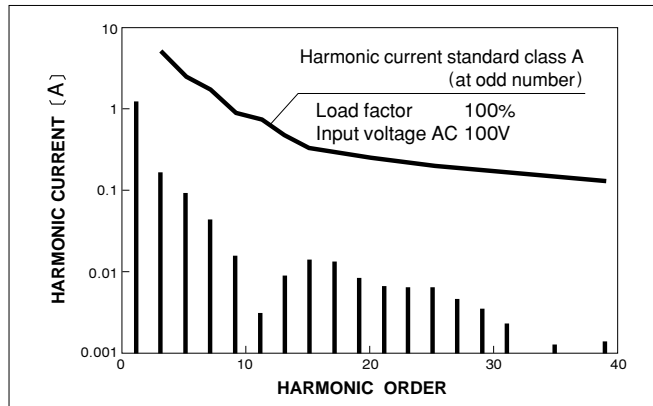
## RISE TIME &amp; FALL TIME (LEB100F-0524)



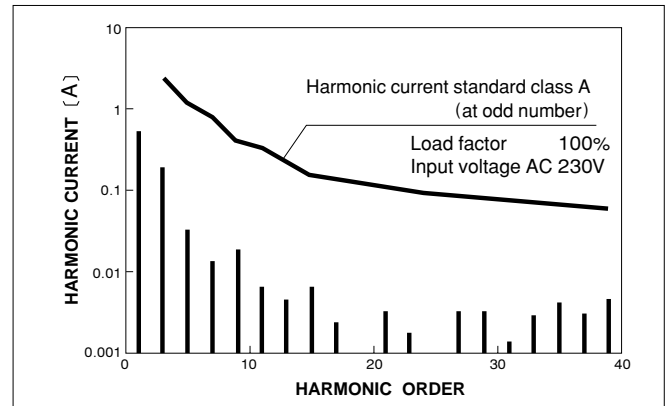
## EFFICIENCY (LEB100F-0524)



## INPUT HARMONIC CURRENT (LEB100F-0524)



## INPUT HARMONIC CURRENT (LEB100F-0524)



## Distribution:

RSG Electronic Components GmbH ■ Sprendlinger Landstr. 115 ■ D-63069 Offenbach/Germany  
Tel. +49 69 984047-0 ■ Fax +49 69 984047-77 ■ info@rsg-electronic.de ■ www.rsg-electronic.de