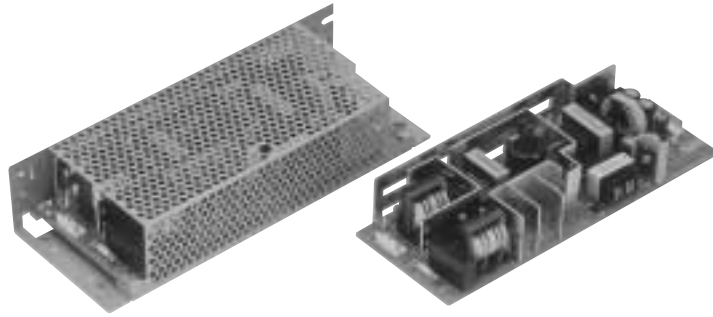




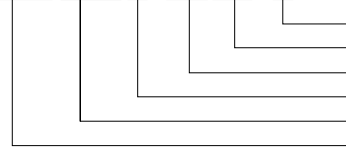
## EMC Compliance

- 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



- Small and compact PCB construction
- Power factor 0.99
- Harmonic attenuator (Complies with IEC61000-3-2)
- Universal input voltage (AC85~264V)
- UL, C-UL recognized, TÜV approved
- Two-year warranty

### ORDERING INFORMATION

**LEB 150F-0524-**


Option ※1  
(G,R,S,SN,T,Z)  
V2 Output voltage  
V1 Output voltage  
Universal input  
Output wattage  
Series name

### SPECIFICATIONS

MODEL		LEB150F-0524		LEB150F-0512		
INPUT	VOLTAGE	AC85~264V 1 $\phi$ or DC120~370V				
	CURRENT (I <sub>o</sub> =100%)	2.0A typ (ACIN100V) / 1.0A typ (ACIN200V)		1.6A typ (ACIN100V) / 0.8A typ (ACIN200V)		
	FREQUENCY	50/60 (47~63) Hz or DC				
	EFFICIENCY (I <sub>o</sub> =100%)	ACIN 100V	79%typ		76%typ	
		ACIN 200V	82%typ		79%typ	
	POWER FACTOR (I <sub>o</sub> =100%)	0.99typ (AC100V) / 0.93typ (AC200V)		0.98typ (AC100V) / 0.93typ (AC200V)		
INRUSH CURRENT	15A typ (AC 100V, I <sub>o</sub> =100%) / 30A typ (AC 200V, I <sub>o</sub> =100%) At cold start (T <sub>a</sub> =25°C)					
LEAKAGE CURRENT	0.75mA max (60Hz according to IEC60950 and DENTORI)					
OUTPUT	VOLTAGE [V]	5	24	5	12	
	CURRENT ※2 [A]	0~5	0~6 (10 at peak)	0~5	0~7.5 (14 at peak)	
	TOTAL OUTPUT WATTAGE ※3 [W]	150 (246 at peak)		115 (193 at peak)		
	LINE REGULATION [mV]	20max	96max	20max	48max	
	LOAD REGULATION [mV]	40max	150max	40max	100max	
	RIPPLE [mV-p] ※4	0~+45°C	80max	120max	80max	120max
		-10~ 0°C	140max	160max	140max	160max
	RIPPLE NOISE [mV-p] ※4	0~+45°C	120max	150max	120max	150max
		-10~ 0°C	160max	180max	160max	180max
	TEMPERATURE REGULATION [mV]	0~+45°C	50max	240max	50max	120max
		-10~ 45°C	60max	290max	60max	150max
	DRIFT ※5 [mV]	20max	96max	20max	48max	
	START-UP TIME ※6 [ms]	250max	500max	250max	500max	
	HOLD-UP TIME ※6 [ms]	40 typ	20 typ	40 typ	20 typ	
OUTPUT VOLTAGE ADJUSTMENT RANGE [V]	4.5~5.5	Fixed	4.5~5.5	Fixed		
OUTPUT VOLTAGE SETTING [V]	-	23.0~25.0	-	11.5~12.5		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	V1	Works over 105% of rating current and recovers automatically.			
		V2	Works over 101% of peak current and recovers automatically.			
	OVERVOLTAGE PROTECTION	V1	Works over 115% of rating, by zener diode clamping.			
		V2	Works over 115~140% of rating.			
REMOTE ON/OFF	Option					
ISOLATION	INPUT-OUTPUT-RC ※7	AC3,000V, 1minute, Cutoff current= 10mA, DC500V 50M $\Omega$ min. (At Room Temperature)				
	INPUT-FG	AC2,000V, 1minute, Cutoff current= 10mA, DC500V 50M $\Omega$ min. (At Room Temperature)				
	OUTPUT-RC-FG ※7	AC 500V, 1minute, Cutoff current=100mA, DC500V 50M $\Omega$ min. (At Room Temperature)				
	OUTPUT-OUTPUT (V1-RC - V2) ※7	AC 100V, 1minute, Cutoff current=100mA, DC100V 10M $\Omega$ min. (At Room Temperature)				
ENVIRONMENT	OPERATING TEMP. HUMID. AND ALTITUDE	-10~+70°C, 20~90%RH (Non condensing) (Refer to DERATING CURVE) , 3,000m (10,000feet) max				
	STORAGE TEMP. HUMID. AND ALTITUDE	-20~+75°C, 20~90%RH (Non condensing) , 9,000m (30,000feet) max				
	VIBRATION	10~55Hz, 19.6m/s <sup>2</sup> (2G) , 3 minutes period, 60 minutes each 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	UL 1950, C-UL, EN60950, VDE0160, complies with DENTRI and IEC60950 (At only AC input)				
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B , EN55022-B, VCCI-B				
	HARMONIC ATTENUATOR	Complies with IEC61000-3-2				

※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 $\mu$ F 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°C, with the input voltage held constant at the rated input/output.

※6 ACIN 100V, I<sub>o</sub>=100%

※7 Applicable when remote control (optional) is added.

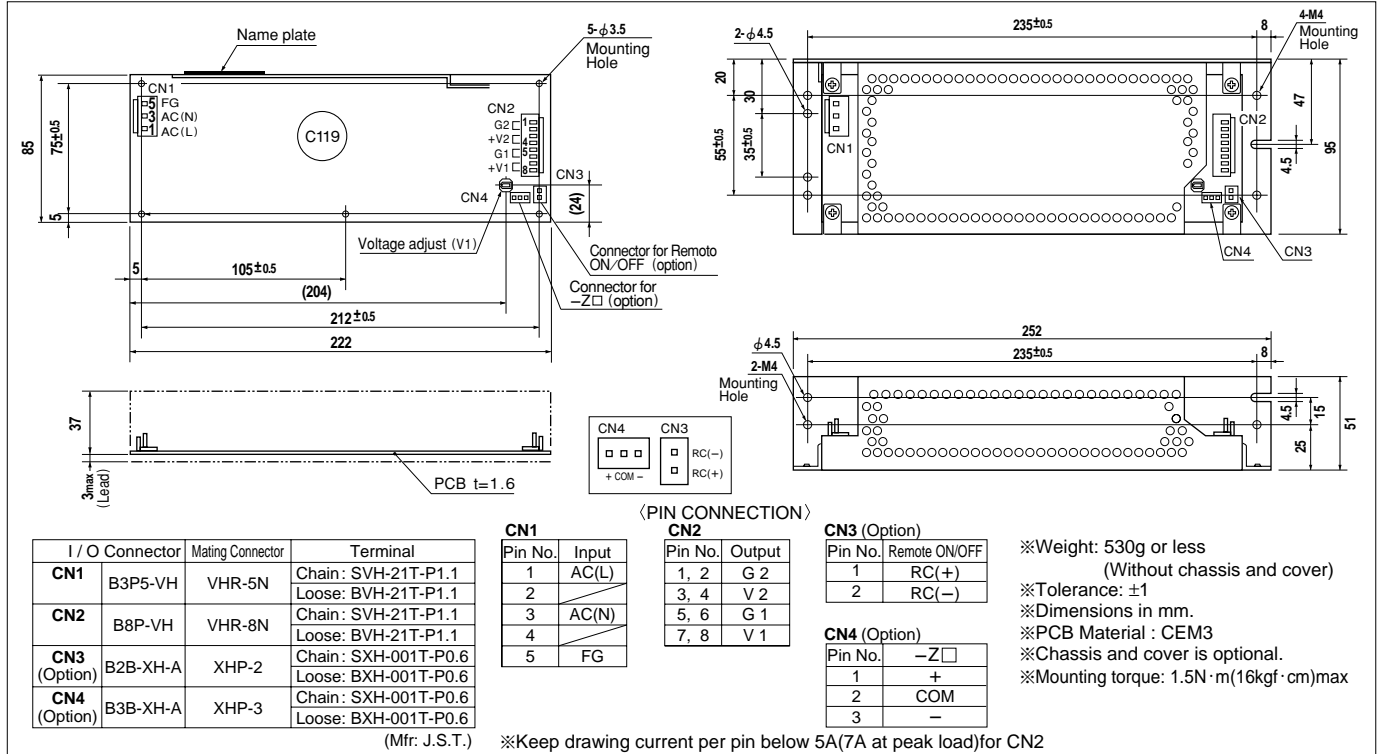
※ Series/Parallel operation is not possible.

※ Derating is required when operated with chassis and cover.

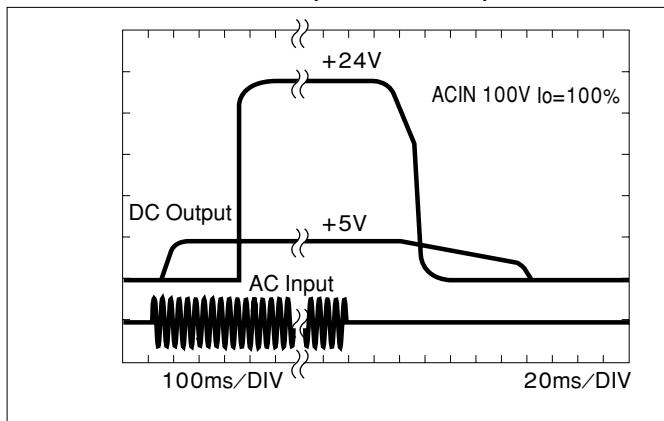
※ A sound may occur from power supply at peak loading.

MODEL	LEB150F-0524	LEB150F-0512
DC OUTPUT	V1 + 5V 5A V2 +24V 6A (PEAK 10A)	+ 5V 5A +12V 7.5A(PEAK 14A)

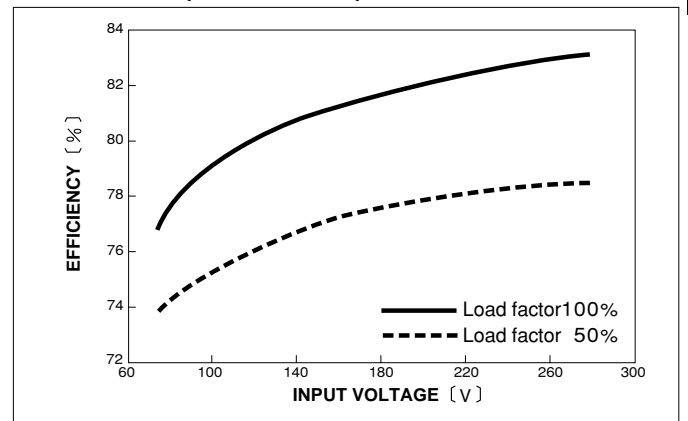
## EXTERNAL VIEW



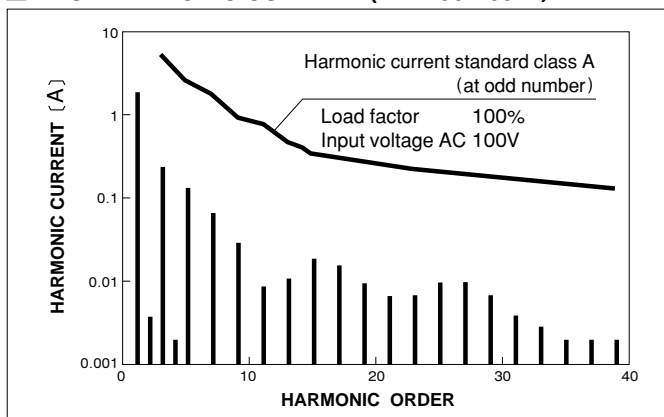
## RISE TIME & FALL TIME (LEB150F-0524)



## EFFICIENCY (LEB150F-0524)



## INPUT HARMONIC CURRENT (LEB150F-0524)



## INPUT HARMONIC CURRENT (LEB150F-0524)

