



## Rugged PCB Type AC-DC converter LFA series

## **Rugged PCB type AC-DC converter**

5 years warranty









### Feature

Small and compact PCB construction Built-in inrush current, overcurrent and overvoltage protection circuits Harmonic attenuator (Complies with IEC61000-3-2) Universal input (AC85-264V) Power factor correction (LFA50F-300F) Built-in reducing standby power circuit (LFA10F, 15F)

### Safety agency approvals

UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN

#### EMI

Complies with FCC-B, CISPR22-B, EN55011-B, EN55022-B, VCCI-B

### **5-year warranty** (refer to Instruction Manual)

CE marking

Low Voltage Directive

### EMC Compliance : EN61204-3, EN61000-6-2

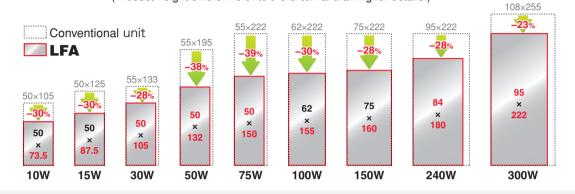
EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11

# LFA series 10-300W

Compact, light weighted, and wide input Rugged PCB type AC-DC converter

## Wide input New compact rugged PCB type power supply is provided.

 Downsize for 23 - 38% of conventional unit (our conventional unit: LDA/LEA/LEP series board area ratio)
Size dimensions compatible with LGA series, AC100V Rugged PCB type power supply. Changing the mechanical design for input voltage is unnecessary and design standardizing is contributed. (Product height differs. Refer to the external drawing for details.)



<b>F</b> eatures						
	Standby po	-38% downsized compa				
	Effici					
	10W	15W	30W	50W		
	LFA10F	LFA15F	LFA30F	LFA50F		
AC85-264V Wide input						
AC85-132V AC100V input				LGA50A		
LFA recommended no	ise filter <b>e</b>	l	_GA recommended n	oise filter	<b>V</b>	
Cosel's vari noise filter		eries ernal impulse	High atten NBC serie			

## **Compatible to worldwide safety standard**

Compatible to UL\*1, C-UL, TUV standard \*2, CE mark \*3. With compatibility to various safety standards of major countries, investigation time and cost for safety standard accreditation can be reduced.

\*2: UL: UL60950-1, C-UL: CSA60950-1 based on UL evaluation, TUV: EN60950-1, EN50178 pending \*3: low voltage directive

## Lowering environmental load

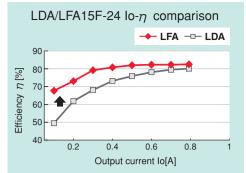
- All models: harmonic attenuator (IEC61000-3-2) (No power factor improvement circuit in 10/15/30W)
- ●10-30W: lowering the standby power and improve efficiency in middle load.
- •50-300W: Power factor improvement circuit is built-in and input power capacity is lowered.
- ●100-300W 3.3/5V: synchronous rectification technology is applied. High efficiency is achieved.
- ●100-300W: 24V peak output unit is provided to semi-standard lineup.

### 10-300W all 9 models Variation of 59 models

- •Fulfilling model variations in standard power supply. Reassuring in sudden power/voltage change.
- Convectional cooled 300W (24V: peaked at 450W)-24/36/48V newly available.

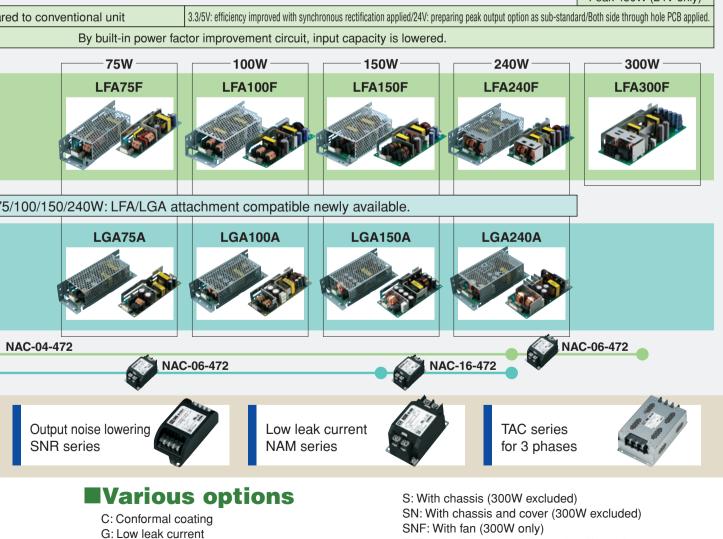
(3.3/5/12/15V Air-forced cooling)

Most suitable to mechatronics: 240W-24/36/48V



Wattage	Output voltage[V]									
[W]	3.3	5	12	15	24	24peak	36	48		
10	0	0	0	0	0					
15	0	0	0	0	0					
30	0	0	0	0	0					
50	0	0	0	0	0		0	0		
75	0	0	0	0	0		0	$\bigcirc$		
100	0	0	0	0	0	0	0	0		
150	0	0	0	0	0	0	0	0		
240					0	0	0	0		
300	$\bigcirc$	0	0	0	$\bigcirc$	0	0	$\bigcirc$		

#### Convectional cooling 300/ Peak 450W (24V only)



- J1: VH (J.S.T) Connector (300W excluded)
- H: Peak current (100/150/240/300W only)
- R: Remote control function (100/150/240/300W only)
- T: Terminal block vertical type (240W only)
- T1: Terminal block horizontal type (300W only)
- Y: With output voltage adjusting potentiometer (Standardized depending on models. Refer to the specification for details.)