



# **Miniature All-rounder**

# **3-10W Cost-effective AC/DC Converter**

LSxx-13BxxR3





DLPC Pty Ltd Tel: 07 3823 4844 Fax: 07 3823 4866 Email: keith@dlpc.com.au Web: www.dlpc.com.au



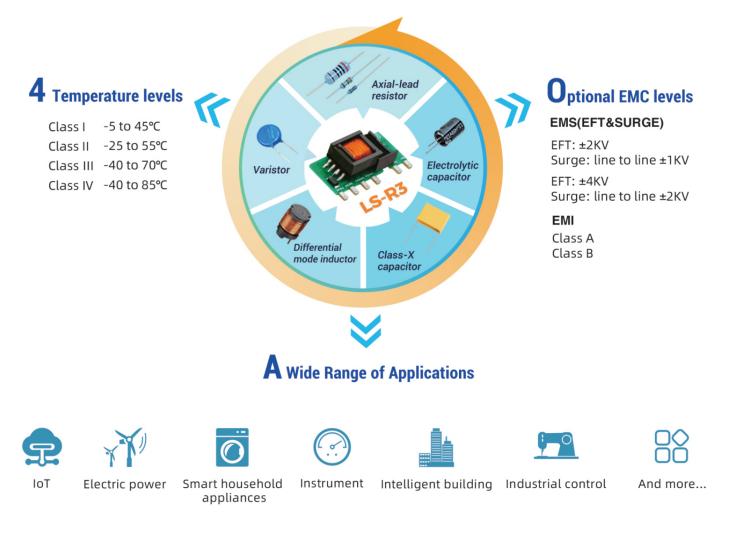


### Fairmont Marketing

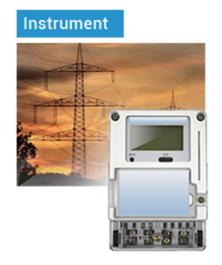
Tel: 03 9878 3077 Fax: 03 9878 4522 Email: nick@fairmontmarketing.com.au Web: www.fairmontmarketing.com.au

# Flexible Peripheral Designs for a Wide Range of Applications

Simplify design with flexible peripheral circuits, provides with 4 selectable temperature levels and optional EMC levels for a wide range of applications working in diverse environmental conditions.



### **Build Your Own Personalized Power Supply**





New energy

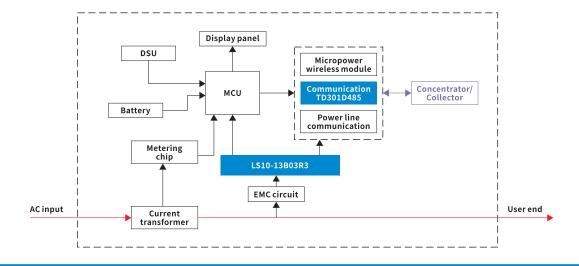


EV charging box

## **Instrument Application Solution**







## **Peripheral Design Recommendation**

(Applicable for LS05-13B12R3, for the other models it requires changes in the specification of the peripheral components accordingly)

			<b>1</b> IOT A	Application —	
	Y		< Typical application: Intelligent Switch		
				Recommended value	
			Electrolytic capacitor		
			Differential m inductor	ode 1.2mH/Max: 4.0Ω/Min: 0.2A	
	EMI	Class B	X capacito	r 0.1µF/310VAC	
	EMS	EFT: ±2KV Surge: line to	Y capacito	r 1nF/400VAC	
	Que e archive a	line ±1KV	Wirewound Resistor	12Ω/3W	
	Operating temperature	-25 to 55℃	Fuse	1A/300V, slow-blow	
Smart Household App	oliances		< Typical appl	lication: smart coffee maker	
			Electrolytic capacitor		
	EMI	Class B	Differential m inductor	ode 1.2mH/Max: 4.0Ω/Min: 0.2A	
	EMS	EFT: ±2KV	X capacito	r 0.1µF/310VAC	
		Surge: line to line ±1KV	Y capacito	r 1nF/400VAC	
Note: Customer can DIY with	Operating		Wirewound Resistor	d 12Ω/3W	
double Y capacitors	temperature	-25 to 55℃	Fuse	1A/300V, slow-blow	

1A/300V, slow-blow

Fuse

# Intelligent Building



ं रंभ्हें की रियो रियो	
EMI	Class B
EMS	EFT: ±2KV Surge: line to line ±1KV
Operating temperature	-25 to 55℃

### Typical application: panel switch

	Recommended value		
Electrolytic capacitor	10µF/450V		
Differential mode inductor	1.2mH/Max: 4.0Ω/Min: 0.2A		
X capacitor	0.1µF/310VAC		
Y capacitor	1nF/400VAC		
Wirewound Resistor	12Ω/3W		
Fuse	1A/300V, slow-blow		





EMI	Class A		
EMS	EFT: ±4KV Surge: line to line ±2KV		
Operating temperature	-25 to 55°C		

#### Typical application: fire alarm device

	Recommended value		
Electrolytic capacitor	10µF/450V		
Differential mode inductor	4.7mH/Max: 15Ω/Min: 0.2A		
Varistor	14D561K		
Y capacitor	1nF/400VAC		
Wirewound Resistor	12Ω/2W		
Fuse	2A/300V, slow-blow		



# Technical Specifications (LSXX-13BXXR3)

CRU'US CE CB ROHS



### Features

- Compact size: 26.4x14.73x11mm(5W) •
- Wide input: 85-305VAC, accepting AC or DC input •
- Operating temperature range: -40℃ to +85℃ •
- No-load power consumption as low as 0.1W •
- Output short circuit, over-current protection •
- IEC/EN/UL62368 approval

Certification	Part No.	Output Power	Nominal Output Voltage and Current (Vo/Io)	Efficiency at 230VAC (%)Typ.	Capacitive Load (µF) Max.
CE/UL/CB	LS03-13B03R3	1.98W	3.3V/600mA	67	820
	LS03-13B05R3		5V/600mA	72	680
	LS03-13B09R3		9V/333mA	76	470
	LS03-13B12R3	3W	12V/250mA	77	470
	LS03-13B15R3		15V/200mA	78	330
	LS03-13B24R3		24V/125mA	80	200
CE/UL/CB	LS05-13B03R3	3.3W	3.3V/1000mA	69	2200
	LS05-13B05R3		5V/1000mA	76	1500
	LS05-13B09R3		9V/560mA	77	680
	LS05-13B12R3	5W	12V/420mA	79	470
	LS05-13B15R3		15V/340mA	79	330
	LS05-13B24R3		24V/210mA	81	100
CE/UL/CB	LS10-13B03R3	6.6W	3.3V/2000mA	73	1500
	LS10-13B05R3		5V/2000mA	77	1500
	LS10-13B09R3		9V/1100mA	80	1000
	LS10-13B12R3	10W	12V/830mA	82	680
	LS10-13B15R3	] [	15V/670mA	82	470
	LS10-13B24R3	1	24V/420mA	83	330

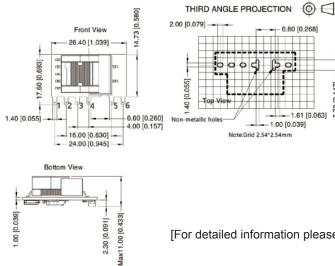
Note: 1. The nominal output voltage refers to the voltage applied to the load terminal after adding external circuits. 2. If the product is used in a severe vibration application, it needs to be glued and fixed.

#### **Dimensions** (Below is for LS05-13BxxR3, for LS03/10-13BxxR3 please refer to the datasheet)

147]

0

3.73



[For detailed information please visit www.dlpc.com.au to download the product datasheet.]

Pin-Out

Function

AC(L) AC(N)

+V(cap)

-V(cap)

-Vo

+Vo

General tolerances: ±1.00[±0.039]

please refer to the actual product

The layout of the device is for reference only,

Pin

1

2

3

4

5

6

Note:

Unit: mm[inch]



**DLPC Pty Ltd** Tel: 07 3823 4844 Fax: 07 3823 4866 Email: keith@dlpc.com.au Web: www.dlpc.com.au





### Fairmont Marketing

Tel: 03 9878 3077 Fax: 03 9878 4522 Email: nick@fairmontmarketing.com.au Web: www.fairmontmarketing.com.au