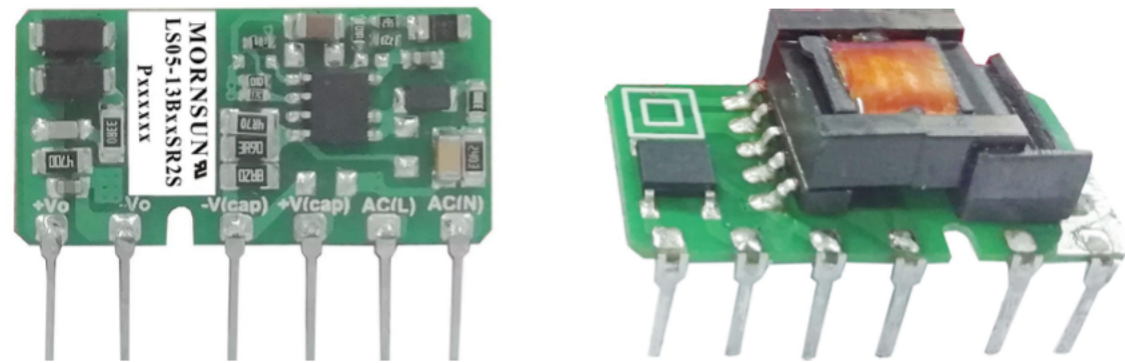


# AC/DC Converter

## LS05-13BxxSR2S(-F) Series

# MORNSUN®

5W, AC/DC converter



### FEATURES

- Ultra-wide 85 - 305VAC and 70 - 430VDC input voltage range
- Accepts AC or DC input (dual-use of same terminal)
- Operating ambient temperature range -40°C to +85°C
- Compact size, high power density
- Low power consumption, green power
- Output short circuit, over-current protection
- Over-voltage class II
- IEC/EN/UL62368, EN60335 safety approval

*LS05-13BxxSR2S(-F) series is one of Mornsun's highly efficient green power AC-DC Converter series. They feature wide input range accepting either AC or DC voltage, high efficiency, low power consumption and Class II reinforced insulation. All models are particularly suitable for industrial control, electric power, instrumentation and smart home type applications which do not have high levels of EMC requirement. We recommend using external components as shown in design reference for enhanced EMC performance in harsh environmental conditions.*

### Selection Guide

Certification	Part No.	Output Power	Nominal Output Voltage and Current (Vo/Io)	Efficiency at 230VAC (%) Typ.	Capacitive Load (uF) Max.
CE/UL/CB	LS05-13B03SR2S(-F)*	3.3W	3.3V/1000mA	67	2200
	LS05-13B05SR2S(-F)	5W	5V/1000mA	74	1500
	LS05-13B09SR2S(-F)		9V/560mA	75	680
	LS05-13B12SR2S(-F)		12V/420mA	77	470
	LS05-13B15SR2S(-F)		15V/340mA	77	330
	LS05-13B24SR2S(-F)		24V/210mA	79	100

Note: ① \*An "-F" suffix designates horizontal package vs. standard vertical mounting.  
 ② If the product is used in a severe vibration application, it needs to be glued and fixed.

### Input Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage Range	AC Input	85	--	305	VAC
	DC Input	70	--	430	VDC
Input Frequency		47	--	63	Hz
Input Current	115VAC	--	--	0.2	A
	277VAC	--	--	0.1	