



## 15 V / 1.2 A SSR Flyback converter based on VIPer318L



### **Features**

Universal input mains range: 85 – 265VAC

Frequency: 50-60HzOutput voltage: 15 VOutput current: 1.2 A

Stand-by mains consumption: < 55mW at 230VAC</li>

Average efficiency: > 85%

Tight line and load regulation over the entire input and output range

 Meets IEC55022 Class B conducted EMI even with reduced EMI filter, thanks to the frequency jittering feature

RoHS compliant

· WEEE compliant

### **Description**

The STEVAL-VP318L1F reference design implements a 15 V - 18 W SSR isolated flyback converter developed for general purpose applications operating from 85 to 265  $V_{AC}$ .

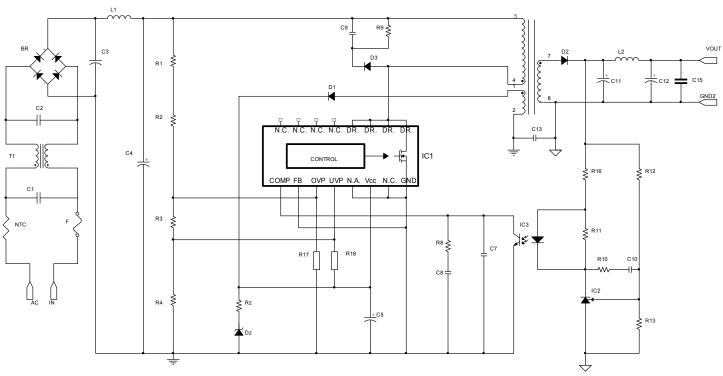
The design is built around the new VIPer318L offline high-voltage converter from the VIPerPlus family with 800 V avalanche-rugged Power MOSFET, PWM current-mode control, fixed 60 kHz switching frequency with jittering to satisfy electromagnetic disturbance regulations, and burst mode for light load management.

The board features a small size, minimal BOM, high efficiency, low stand-by consumption and tight line and load regulation over the entire input and output range. Input overvoltage and undervoltage protections with separate and settable trigger thresholds are available on the respective OVP and UVP pins.

	Product summary		
	15 V / 1.2 A SSR Flyback converter based on VIPer318L	STEVAL- VP318L1F	
	Energy Saving Off- line High Voltage Converter	VIPER318L	
	Applications	Isolated Auxiliary Power Supply up to 20W	









# **Revision history**

**Table 1. Document revision history** 

Date	Version	Changes
03-Sep-2020	1	Initial release.
04-Nov-2020	2	Updated Section 1 Schematic diagram.

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