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# ST VIPerPlus Family

Auxiliary power supply of high voltage  
power converter in H/A

Industrial  
Power & Energy  
Competence Center





# VIPer122/222

## For small home appliance applications

### Optimized for low power PSU



- Major and Small Home Appliances
- Smart Home
- Smart Metering
- Auxiliary for LED Lighting



#### KEY FEATURES

- Integrated primary MOSFET
  - 730 V
  - 15 Ohm (VIPER222) , 27 Ohm (VIPer222)
- Integrated HV Start up
- PWM current mode controller
- Embedded E/A for direct feedback using a resistor divider

#### KEY APPLICATION BENEFITS

- Small EMI filter thanks to the jittering
- Stand-by lower than 40 mW @ 230 VAC
- Protections (short circuit & Thermal)
- Few component counts and small PCB
- Small package (SSO10)



Induction Cooker



Microwave Oven

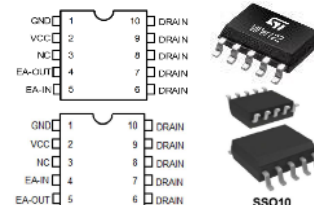


Washing Machine



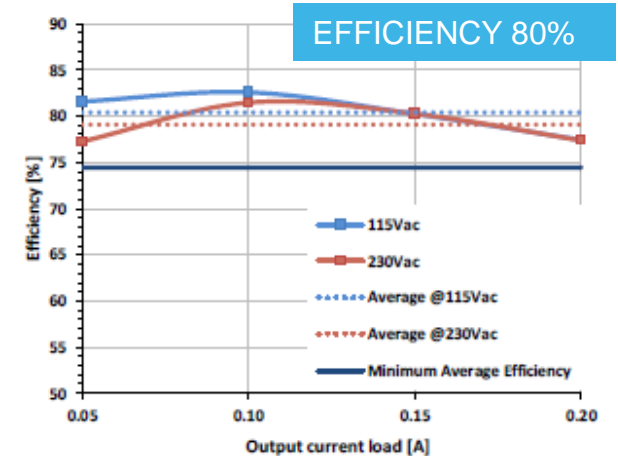
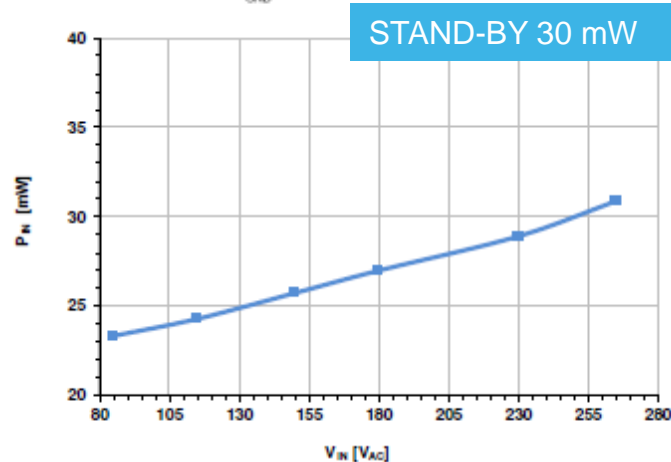
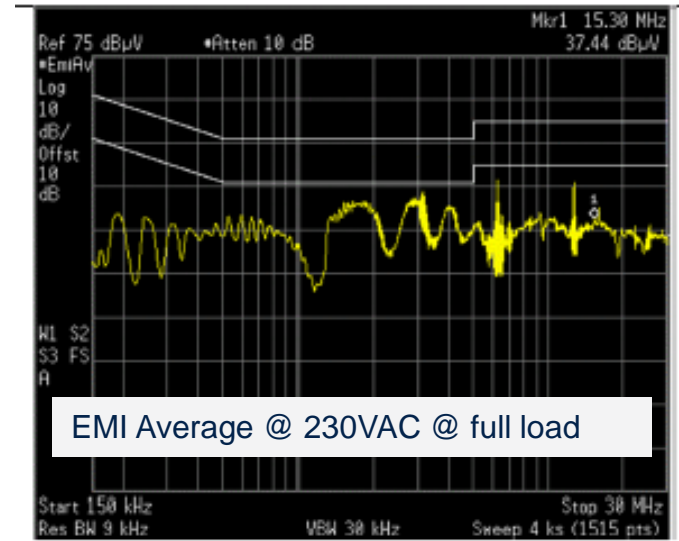
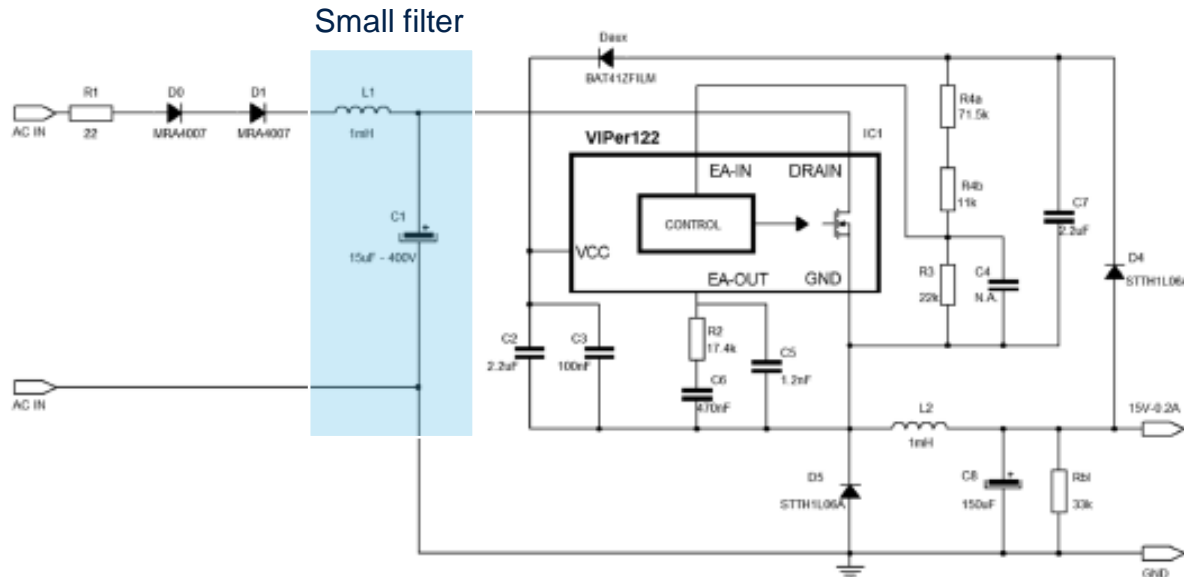
Smart Coffee Machine

Part #	RDSON	Buck Converter Out Current @85-265VAC	Fly Back Out Power @85-265VAC
VIPER122	27 Ohm	250mA	5W
VIPER222	15 Ohm	350mA	8W



# VIPer122 – application advantages

## STEVAL-V12201B (Buck 15V-200mA)





# VIPerPlus ecosystem at a glance

## Evaluation kits

More than **55** evaluation kits  
Buck, buck-boost, fly-back converters



## Technical / Educational note

User Manuals, Datasheets,  
Application notes

## Design Tools

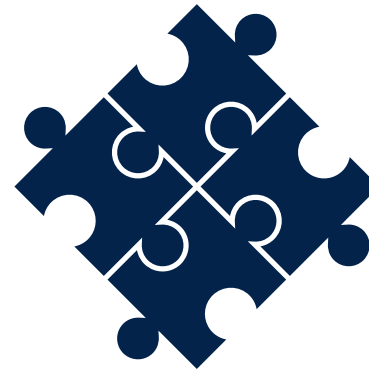
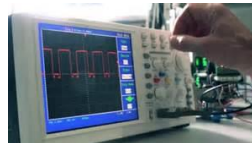
**eDesignSuite**  
The smart way to design your application



## Spreadsheets

OrCAD PSpice®

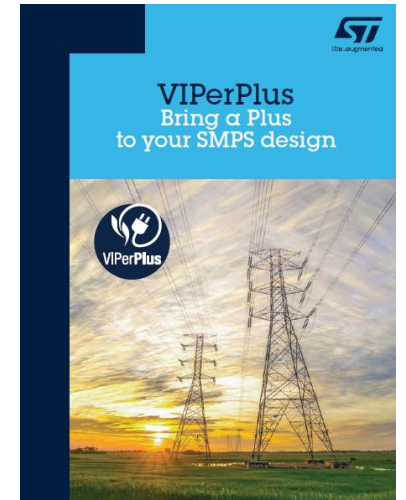
## Models



## Strong Application Support

Design Feasibility  
PCB & BoM optimization  
EMI pre-compliance  
EMC (Burst-Surge) pre-compliance

## BROCHURE







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