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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

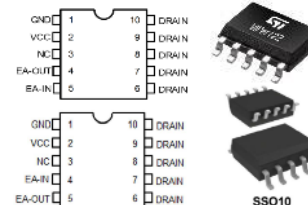


Washing Machine



Smart Coffee Machine

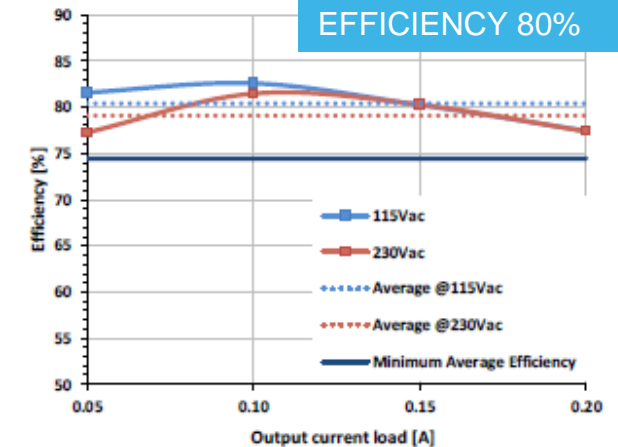
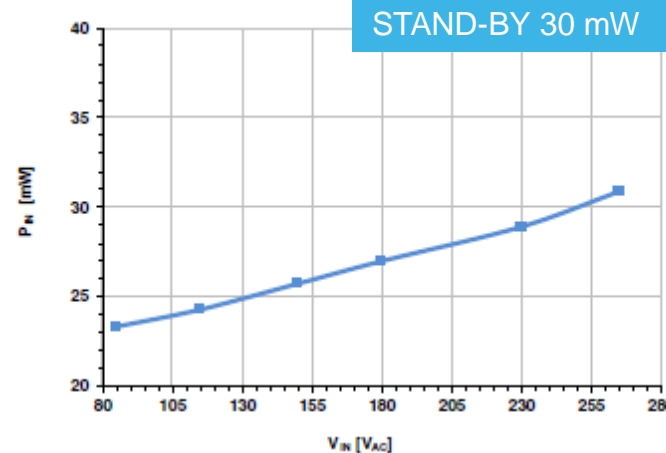
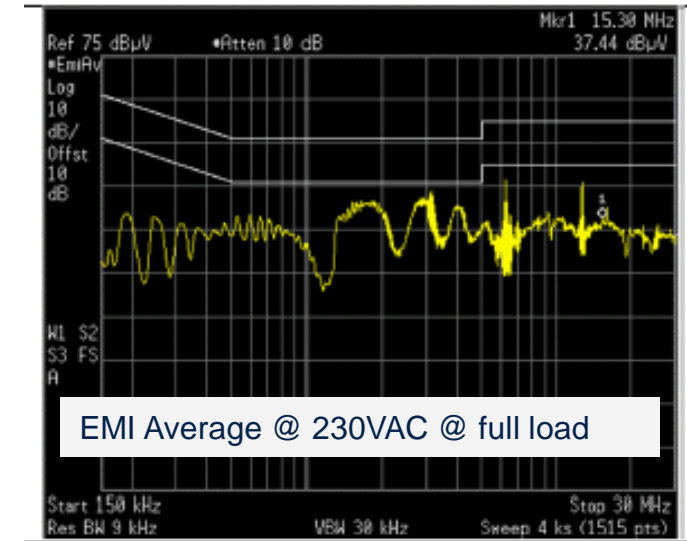
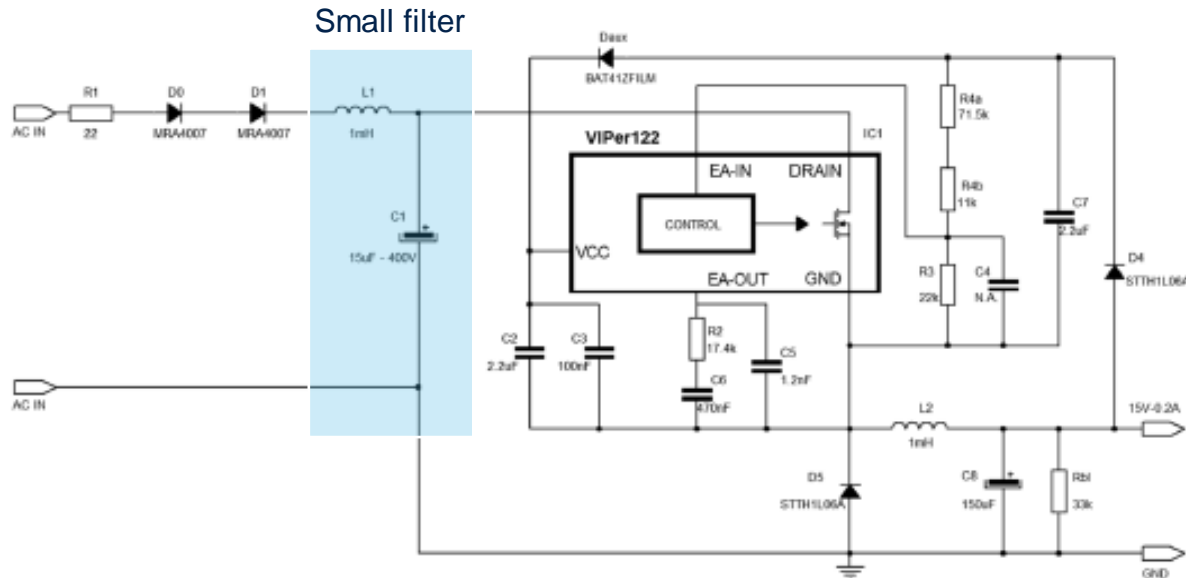
Part #	RDSO	Buck Converter Out Current @85-265VAC	Fly Back Out Power @85-265VAC
VIPER122	27 Ohm	250mA	5W
VIPER222	15 Ohm	350mA	8W





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

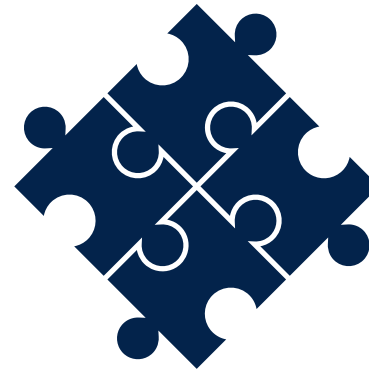
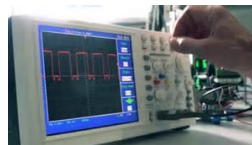
eDesignSuite
The smart way to design your application



Spreadsheets

OrCAD PSpice®

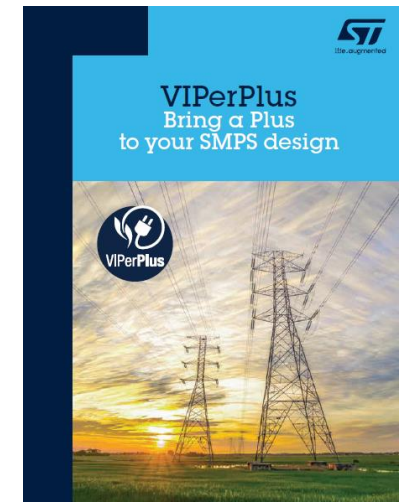
Models



Strong Application Support

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

BROCHURE





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