

# VIPERGAN50W/65W VIPERGAN100W/100WB



## HV converter with 700V GaN HEMT



**Advanced 700 V GaN converters boost power density, efficiency, and speed**

Continuing to invest in GaN based-devices, STMicroelectronics launches the new VIPerGaN 'W' family, which embeds an advanced PWM controller and a 700V HEMT GaN switch, in a tiny QFN 5x6 package.

The family consists of four part numbers:

VIPerGaN50W,  
VIPerGaN65W,  
VIPerGaN100W and  
VIPerGaN100WB.

These part numbers are all pin-to-pin compatible with power ranges from 50W to 100W.

### KEY FEATURES AND BENEFITS

- Quasi-resonant (QR) flyback Controller
- 700V E-mode power GaN transistor (800V transient voltage)
- Minimal standby power consumptions
- Embedded sense FET
- Dynamic blanking time and adjustable valley synchronization delay
- Output OVP protection
- Input voltage feedforward
- Compensation for mains independent OPP variation
- Brown-in and brown-out

- Input OVP protection
- Embedded thermal shutdown
- Frequency jitter for EMI suppression

### KEY APPLICATIONS

- High efficiency power adapters
- Fast battery chargers
- Auxiliary power supply for
- Appliances
- Industrial
- 5G/Communication infrastructure
- Consumer
- Lighting



