



**DESIGNED & DEVELOPED  
IN GREAT BRITAIN**

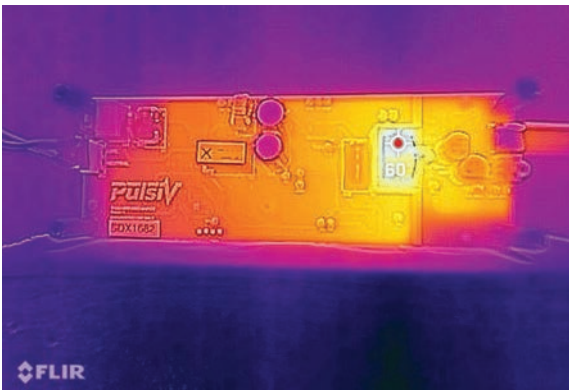
## **INTRODUCING THE WORLD'S MOST EFFICIENT & ADVANCED 65W USB-C DESIGN**

- 96% peak and 95% average efficiency
- 90% lower line currents
- 30% lower operating temperatures
- 20% smaller transformer
- Integrated half-active bridge
- PD3.0, QC4.0, BC1.2, & PPS Fast Charging
- Inrush current eliminated
- Input voltage derating

The PSV-RDAD-65USB reference design combines Pulsiv OSMIUM technology with an industry standard QR Flyback and highly optimized, ultra-compact magnetics.

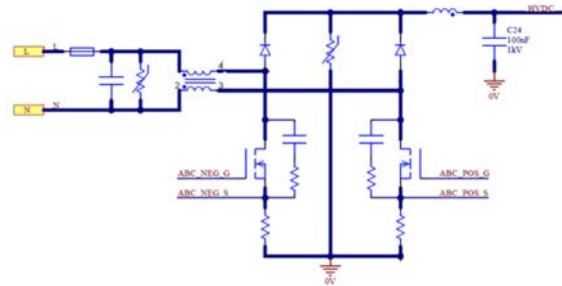
It represents the first in a series of designs aimed at pushing the boundaries of power conversion by drastically lowering operating temperatures, minimizing losses, and reducing size to create a sustainable platform for the USB-C standard.

### ULTRA-COOL OPERATION



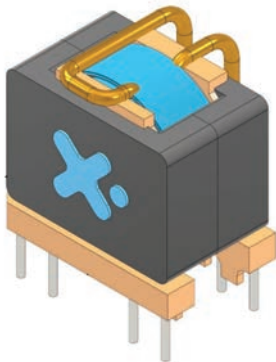
Maximum component temperature rise of 33.9°C at 230VAC

### HALF-ACTIVE BRIDGE



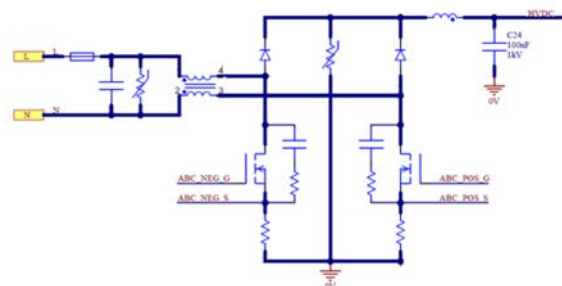
Pulsiv unique integrated half-active bridge

### INNOVATIVE MAGNETICS



A super compact EQ20 transformer

### GAN OPTIMISED



Lower RDSon and parasitic capacitance

The reference design document package is available to download free from the Pulsiv website and includes a Datasheet, Schematics, Bill of Materials, & Altium files.

Evaluation boards and fully assembled modules are available upon request or via a network of approved franchised distributors and stocking partners.