

65 W USB Type-C Adapter

Fully Qualified Ultra-Compact Adapter Using PowiGaN-based InnoSwitch3-Pro and MinE-CAP ICs



Highlights

- Ultra-compact USB Type-C adapter employing 750V PowiGaN technology
- MinE-CAP IC miniaturizes input bulk capacitors
- InnoSwitch3-Pro IC miniaturizes main flyback converter stage
- High level of integration enables simple and cost-effective design certified to international safety standards

Universal Input Range

- 90 – 265 VAC

Full-Range USB Type-C Output Characteristic

- 20 V, 3.25 A
- 15 V, 3.0 A
- 12 V, 3.0 A
- 9 V, 3.0 A
- 5 V, 3.0 A

Certifications

- FCC, UL



Figure 1. 65 W USB Type-C Adapter

Description

This 65 W adapter utilizes Power Integrations' 750 V PowiGaN-based InnoSwitch3-Pro flyback IC to cost-effectively produce a fully qualified USB Type-C adapter. The MinE-CAP IC dramatically reduces the size of the input bulk capacitors while the InnoSwitch-PRO miniaturizes the main flyback converter.

Ultra-Compact 65 W USB Type-C Adapter Using 750 V PowiGaN Technology

