

New Product Release Available Now



Product: InnoSwitch™3-CP

Offline CV/CC QR Flyback Switcher IC with Integrated 650 V / 725 V MOSFET, Synchronous Rectification, FluxLink™ Feedback and Constant Power Profile Up to 65 Watts

Description:

Offline CV/CC QR flyback switcher IC with integrated 650 V / 725 V MOSFET, synchronous rectification, FluxLink feedback and constant power (CP) or constant current plus constant voltage (CVCC) output power options.



The InnoSwitch™3-CP series family of ICs dramatically simplify the development and manufacturing of low-voltage, high current power supplies, particularly those in compact enclosures or with high efficiency requirements. The InnoSwitch architecture is revolutionary in that the devices incorporate both primary and secondary controllers, with sense elements and a safety-rated feedback mechanism (FluxLink) into a single IC.

Close component proximity and innovative use of the integrated communication link - FluxLink, permit accurate control of a secondary-side synchronous rectification MOSFET with Quasi-Resonant switching of primary integrated high-voltage MOSFET to maintain high efficiency across the entire load range.

Features:

- Maximizes efficiency across the entire load range
- Incorporates a multi-mode Quasi-Resonant (QR) / CCM flyback controller, 650 V MOSFET (INN326x) or 725 V MOSFET (INN327x), secondary-side sensing and synchronous rectification driver
- Integrated FluxLink™, HIPOT-isolated, feedback link
- Supports fast charge protocols such as USB PD/QC 4.0 as well as proprietary charging protocols
 - Constant Power (CP) Profile minimizes charging time with continuous adjustment of output current and voltage
- Exceptional CV/CC/CP accuracy, independent of transformer design or external components
- External IS resistor allows for custom CC programming
- Instantaneous transient response $\pm 5\%$ CV with 0%-100%-0% load step

Applications

- USB PD / QC chargers

Product Specification

PRODUCT	Output Power (Watts)			
	230 VAC $\pm 15\%$		85-265 VAC	
	Adapter	Open Frame	Adapter	Open Frame
INN3264C/3274C-H2XX	20 W	25 W	22 W	20 W
INN3265C/3275C-H2XX	25 W	30 W	27 W	25 W
INN3266C/3276C-H2XX	35 W	40 W	36 W	36 W
INN3277C-H2XX	40 W	45 W	40 W	40 W
INN3267C-H2XX	45 W	50 W	40 W	45 W
INN3268C-H2XX	55 W	65 W	50 W	55 W

Related Product Information

- **Product Page:** <https://ac-dc.power.com/products/innoswitch-family/innoswitch3-cp/>
- **Data Sheet:** <https://ac-dc.power.com/design-support/product-documents/data-sheets/innoswitch3-cp-data-sheet/>
- **Video:** <https://ac-dc.power.com/videos/new-features-innoswitch3/>
- **Design Examples:**
 - [DER-536 - 5 W USB PD Power Supply](#)
 - [DER-631 - 30 W Supply For Wall Outlet](#)