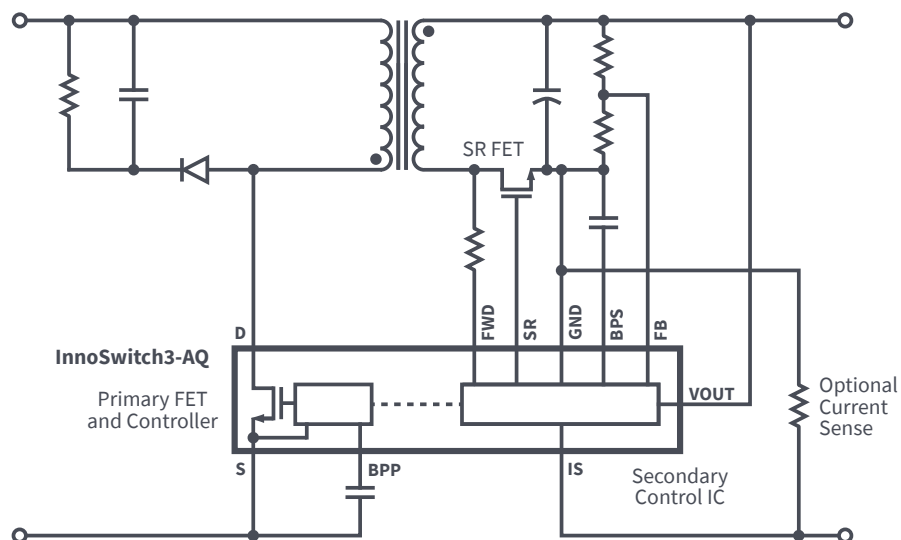


InnoSwitch™ 3-AQ

- Up to 90% efficient across full load range
- 30 VDC to 550 VDC input voltage (up to 925 VDC with StackFET)
- Integrated FluxLink™ feedback
- AEC-Q100 qualified

CV/CC Quasi-Resonant Flyback Switcher IC with Integrated 750 V and 900 V MOSFET and FluxLink Feedback for Automotive BEV and PHEV Applications



PI-8184a-031320

Applications

Auxiliary, standby and bias power supplies for:

- Traction inverters
- Energy management
- DC-DC bus converters
- On-board chargers
- Battery management systems

Output Power

Part Number	30 VDC _{MIN} (W)	60 VDC _{MIN} (W)	400 V (W)	800 V (W)
INN3977CQ	10	20	30	30
INN3996CQ	7	14	20	20



InSOP™-24D Package

Design Support

Data Sheet	InnoSwitch3-AQ data sheet (www.power.com/innoswitch3-aq-data-sheet)
Design Example	30 W, wide input range power supply for automotive applications (DER-840Q) (www.power.com/der-840q)
Design Example	30 W isolated flyback power supply with StackFET for high input voltage automotive applications (DER-859Q) (www.power.com/der-859q)
Design Example	20 W isolated flyback power supply for automotive applications (DER-907Q) (www.power.com/der-907q)
Video	PCIM 2021 - 800 V automotive emergency power supply solution (www.power.com/innoswitch-aq-video)