2.5 kW Battery Charger Design Example

TEA2376DB1647

Preproduction

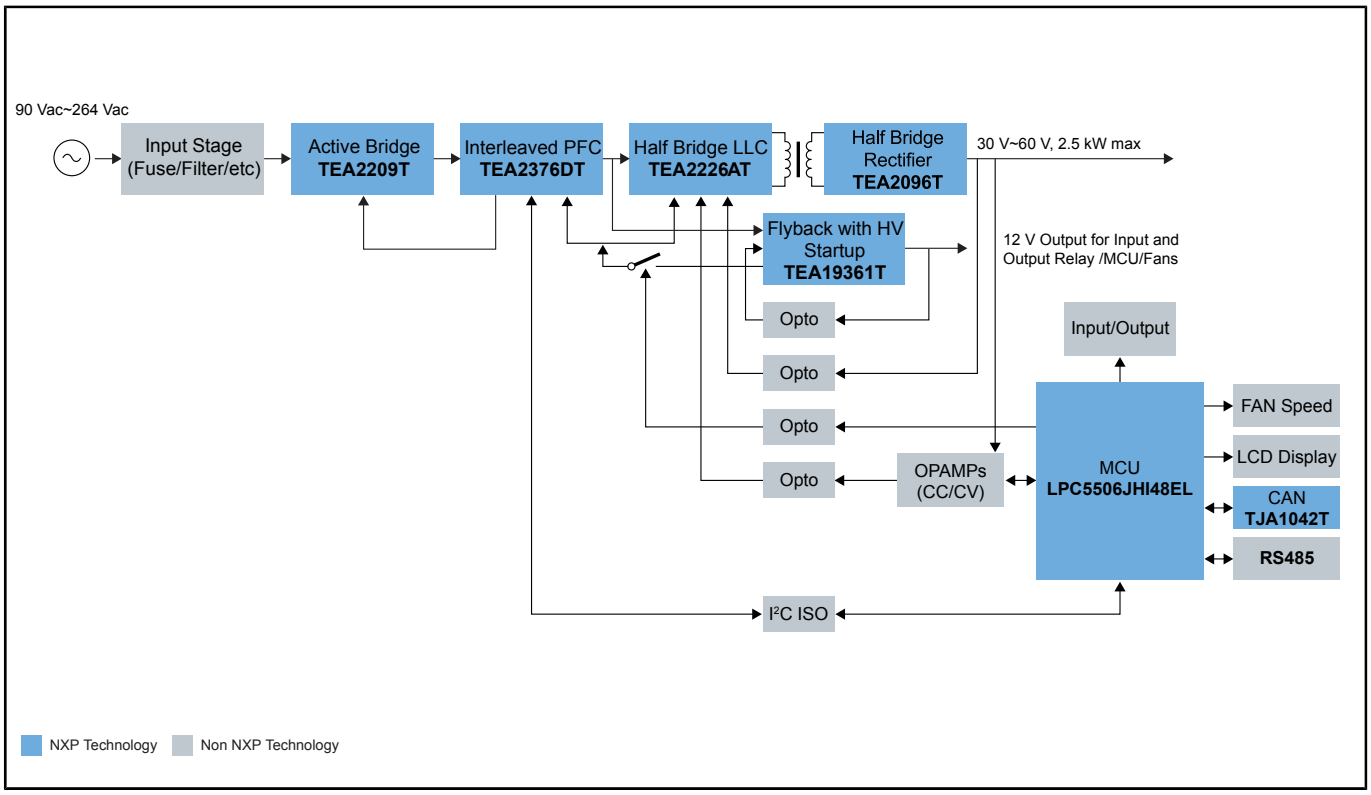
This page contains information on a preproduction product. Specifications and information herein are subject to change without notice. For additional information please contact your sales representative.

Last Updated: Oct 22, 2025

The TEA2376DB1647 board is a power supply that is optimized for charging E-scooters, golf buggys and similar small electric vehicles. It can deliver an output power up to 2.5 kW. The board is designed around the TEA2376 digital configurable two-phase interleaved PFC controller and the TEA2226 LLC controller. This combination provides a rugged power supply combined with a small form factor.

Rectifier losses at the primary side are minimized by using the TEA2209 active bridge controller IC and, at the secondary side, by the TEA2096 synchronous rectifier. Both the TEA2376 and the TEA2226 are digital configurable which enables finetuning the design without BOM modification. The TEA2376 also offers the possibility to read out status information of the power supply.

TEA2376DB1647 Block Diagram



View additional information for 2.5 kW Battery Charger Design Example.

Note: The information on this document is subject to change without notice.