

Application example-Fuel cell

Battery chargers.



- Market Segment: Industrial.
- Applications:
- 1) Liquid Fuel Cell that operates as a battery charger for a wide variety of stationary applications, including wireless base stations.
- 2) Liquid Fuel Cell that operates as an on-board battery charger for a wide variety of vehicles in the materials-handling industry (pallet jacks act..)
- DC/DC Requirements:

Input: **9-36VDC**: The Fuel cell output voltage is the input source Outputs:

- 1) **48V/~2KW** to maintain the charge on the 48 V battery for the material handling vehicles applications.
- 2) **53V/~2KW** to maintain the charge on the 53V battery for the stationary applications.
- Designed in Calex FXP 1000W series :
- http://www.calex.com/pdf/fxp.pdf
- 24S48.21FXP x 2 modules in parallel.
- 24S53.19FXP x 2 modules in parallel.
- Replaced VICOR 600W bricks (3 in parallel), because of better power density, better efficiency and price.