



Altek presents the two types of proprietary Hydrogen Fuel Sources for fuel cell.

Altek has developed (patents are pending) a low pressure (less than 10psi), on-demand hydrogen source. These H₂ sources are based on release H₂ from chemically binded compounds.

Hydrogen release through chemical reactions yields 3.5-10 percent of the components weight:

- 3.5-4.5Wt% in use a hydrogen from water
- 7-10Wt% in use a hydrogen from sodium borohydride

Hydrogen Cartridge

(Chemical H₂ sources)

Specifications	Water H ₂ source		NaBH ₄ H ₂ source		Comments
Energy [Wh]	800		2000		
Weight [kg]	1.0		1.0		
Dimensions	Design can be made for customer requirements.		Design can be made for customer requirements.		
Components	Name	Weight [g]	Name	Weight [g]	
	H ₂ O	500	NaBH ₄	200	
	Al	330	H ₂ O	600	
	NaOH	160	NaOH	150	
	Additives (Proprietary)	10	Catalyst on a bed (Proprietary)	50	
Hours of life per H ₂ cartridge	At 100 watts average power -8 hours continuous		At 100 watts average power -20 hours continuous		Each additional H ₂ cartridge adds another same duration

Specifications and descriptions in this document were in effect at the time of publication. Company reserves the right to change specifications or to discontinue products at any time (02/06).