Nickel Hydrogen System

Technical Data Sheet

CRNH-154-1
Nickel-Hydrogen Cell

Design Features (Nominal)

Rated Capacity	154	A.H.
Nominal Voltage	1.25	Volts
Capacity (C/2 to 1.0 Volt @ 10°C)	165	A.H.

	Metric		Standard	
Cell Mass	3323	grams	7.3	lbs
Diameter	11.79	cm	4.64	in.
Length (including terminals)	28.0	cm	11.0	in.
Length (excluding terminals)	23.9	cm	9.4	in.
Specific Energy	60.2	Wh/Kg	27.3	Wh/lb
Energy Density	90.4	Wh/l	1.5	Wh/in^3
Maximum Expected Operating Pressure (MEOP)	65.5	bars	950	PSIG
Pressure Vessel Safety Factor	2:1	Ratio		

Special Features

Construction Type ..... EPT Mantech Cell Design
Positive Electrode ..... Aerospace Qualified, Slurry Sintered Nickel
Separator ..... Zircar (Zirconium Oxide)
Negative Electrode ..... Platinized Hydrophobic Gas Diffusion Membrane
Electrolyte Management ..... Catalyzed Zirconium Oxide Wall Wick

Strain Gage, State-of-Charge Monitoring Assemblies Available
Excellent Overcharge Capability

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