

# Series 1000 - High Power

## NiMH Battery Module Specifications



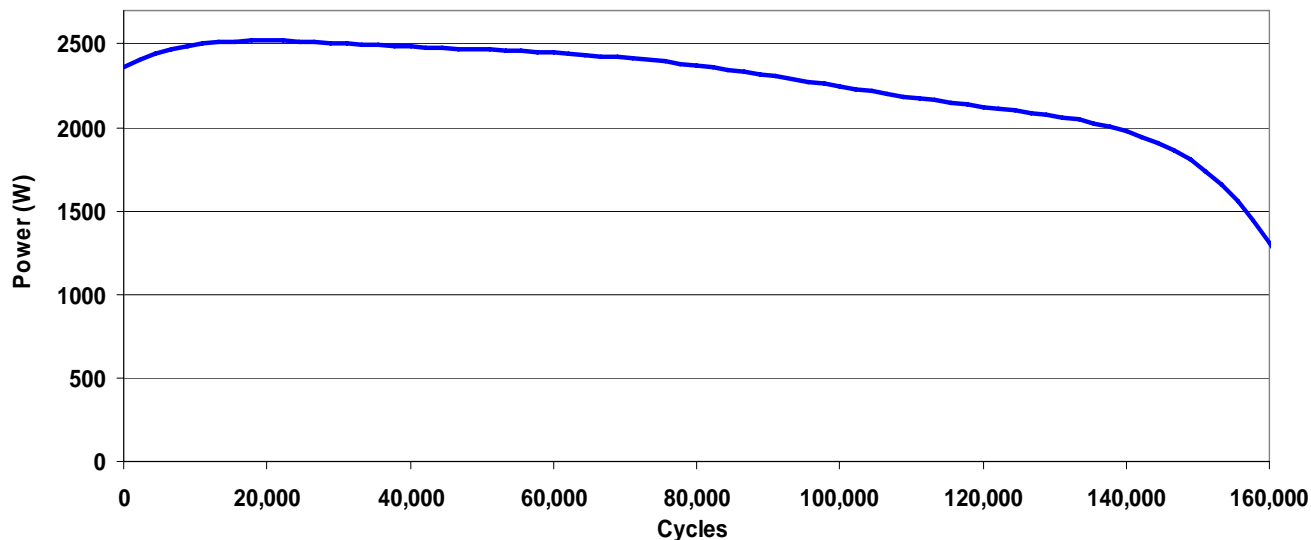
- High power battery modules for power assist applications
- Designed to meet light duty vehicle to large SUV needs
- Liquid cooled to handle the most extreme environmental situations
- System friendly
- Designed in concert with COBASYS battery management architecture for easy plug and play solutions





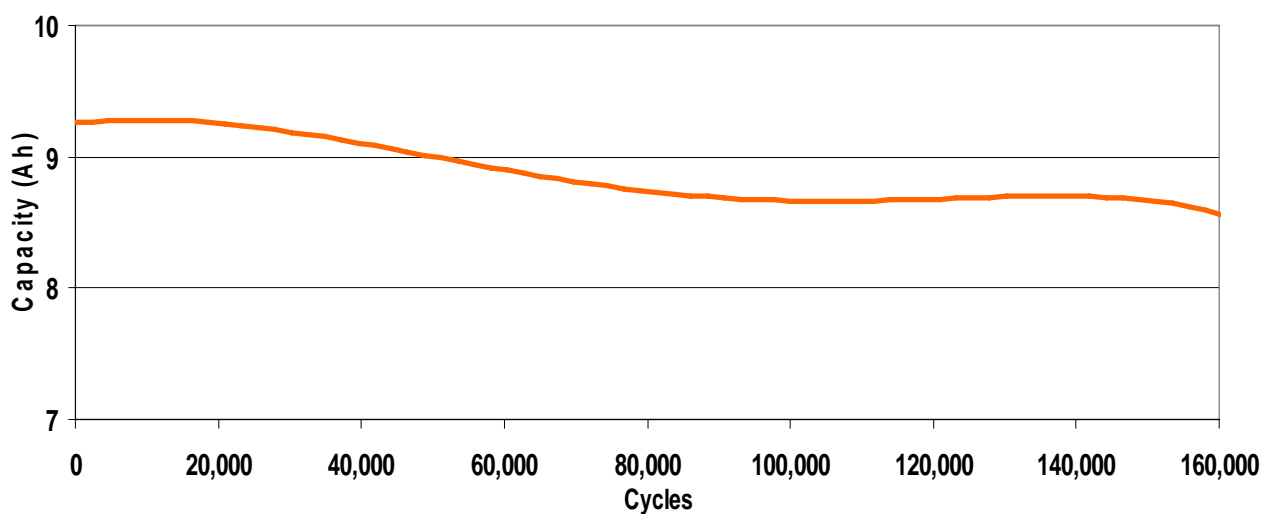
## Power vs. Cycle Life

5% DOD Swings @ 60% SOC @ 35° C Ambient Temp. (Typical Module Temp. 44° C)  
(100 Wh, BSF=20 - Freedom CAR HPPC cycle)



## Capacity vs. Cycle Life

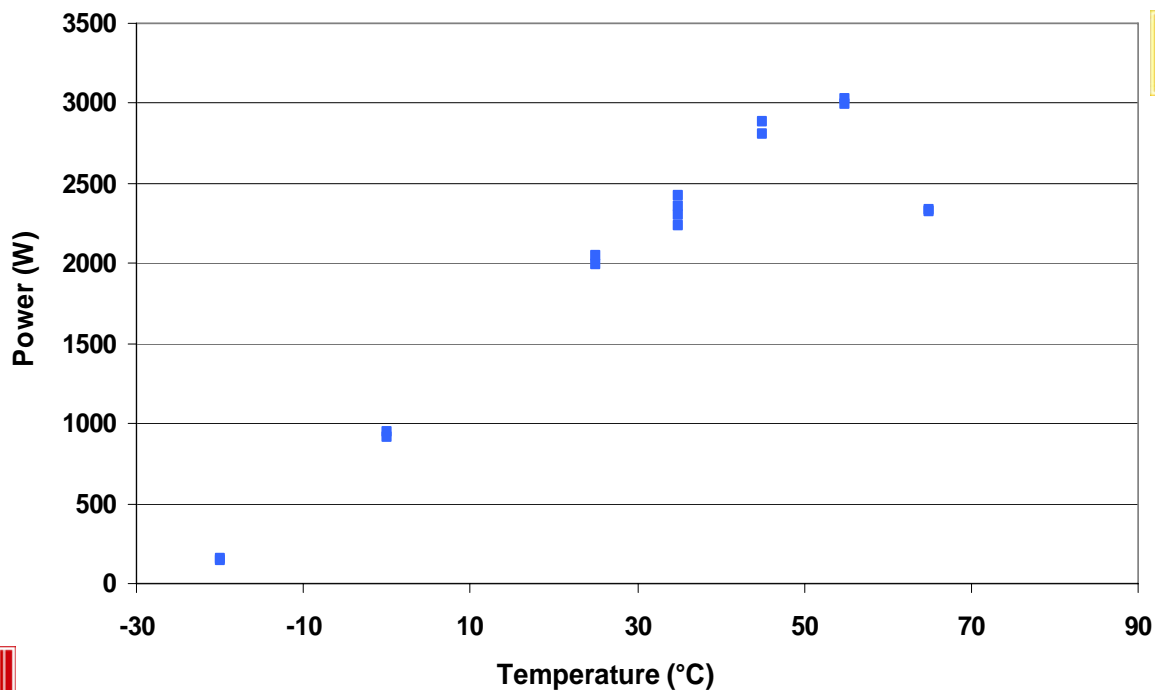
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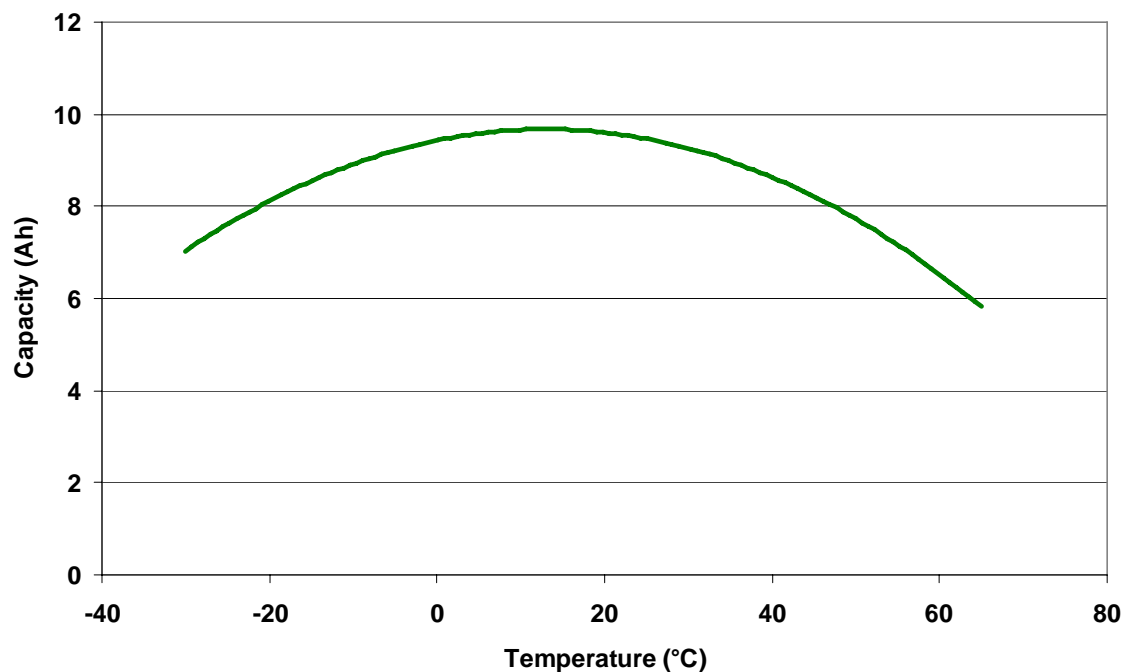
## Power vs. Temperature

At Rated 70% SOC, Power at 75 A DCH Pulse for 10 sec



## Capacity vs. Temperature

(9A discharge rate)

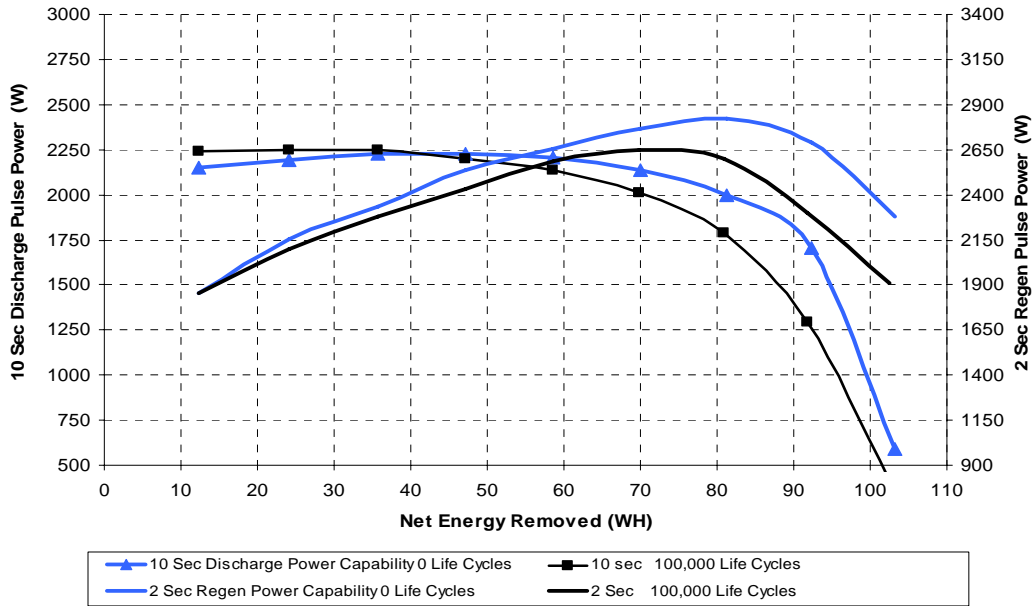


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## Pulse Power vs. Net Energy Removed

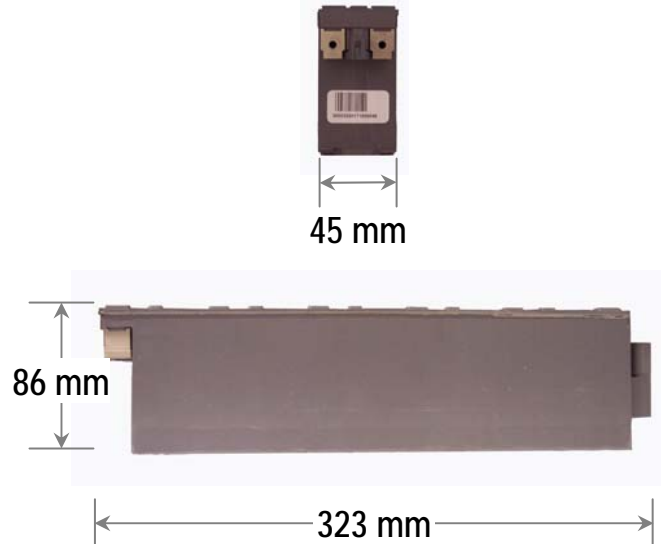
@ 35° C Ambient Temp. (Typical Module Temp. 44° C)



### Engineering Specifications

### Dimensions

Criteria	1000 High Power
Nominal Voltage (V)	12
Capacity (C/3, Ah)	8.8
Nominal Energy (C/3, Wh)	108
Mass (kg)	2.4
Volume (L)	1.25
Specific Energy (Wh/kg)	45
Energy Density (Wh/L)	86
Peak Power (10 sec, 2/3 VOC, 50% DOD (W))	2400 @ 35°C
Heat Transfer (W/°C)	3.5
Flow Rate (L/min)	1.0
Pressure Drop (PSI @1 L/min)	0.6
Thermal Management	Liquid
Case Material	Plastic Monoblock



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